

CC The invention describes an isolated secreted and transmembrane PRO
 CC polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615
 CC is useful in biotechnological and medical research, as well as in various
 CC industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,
 CC PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853,
 CC PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful
 CC therapeutically in vivo for lessening the effects of viral infection.
 CC PRO200 is useful for the treatment of wound healing, tissue growth and
 CC muscle generation and regeneration. PRO337 is useful for treating
 CC amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or
 CC diabetic peripheral neuropathy. A polynucleotide (II) encoding (I) is
 CC useful for generating transgenic animals or knockout animals which are
 CC useful in the development and screening of therapeutically useful
 CC reagents, as probes for generating a pool of sequences for identifying
 CC related PRO coding sequences, and to construct hybridisation probes for
 CC mapping the gene which encodes the PRO and for the genetic analysis of
 CC individuals with genetic disorders, for recombinantly expressing (I) and
 CC for chromosome identification. (I) is useful as molecular marker for
 CC protein electrophoresis purposes, and as therapeutic agents. (I) is also
 CC useful for screening compounds to identify those that mimic the PRO
 CC polypeptide (agonists) or prevent the effect of the PRO polypeptide
 CC (antagonists). (I) and (II) are useful for tissue typing. PRO antibodies
 CC are useful for immunohistochemical staining and/or assay of sample
 CC fluids. Anti-PRO antibodies are useful in diagnostic assays for PRO e.g.
 CC detecting its expression in specific cells, tissues or serum, and for
 CC affinity purification of PRO from recombinant cell culture or natural
 CC sources. This sequence represents a human secreted and transmembrane PRO
 CC protein associated primer.

XX Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;

Best Local Similarity 92.9%; Pred. No. 4.3e+02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAATCGGTGGCGG 228

Db 18 GAATCGGTGGCGG 5

RESULT 698

ADC68610/C

ID ADC68610 standard; DNA; 18 BP.

XX ADC68610;

XX 18-DEC-2003 (first entry)

DE Human PRO 274 PCR primer #4.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 KW wound healing; hearing loss; primer.

XX Homo sapiens.

OS US2003064407-A1.

PN 03-APR-2003.

XX 24-OCT-2001; 2001US-00999834.

XX 17-OCT-1997; 97US-0062250P.

PR 03-NOV-1997; 97US-0064249P.

PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066364P.

PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

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PR 12-MAR-1998; 98US-0077791P.

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PR 07-DEC-1998; 98US-00202054.
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PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
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PR 05-MAR-1999; 98US-00254465.
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PR 10-MAR-1999; 98US-00265686.
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PR 29-OCT-1999; 98US-0162506P.
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PR 16-DEC-1999; 98US-0030095.
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PR 05-JAN-2000; 2000US-0000219.
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PR 30-JUL-2001; 2001US-00918585.
XX
PA (GETH ) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
    Query Match 2.9%; Score 12.4; DB 1; Length 18;
    Best Local Similarity 92.9%; Pred.No. 4.3e+02;
    Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 215 GAACTCGTGGCGG 228
Db 18 GAACTCGTGGCGG 5

RESULT 699
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ID ADC62670 standard; DNA; 18 BP.
XX
AC ADC62670;
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DT 18-DEC-2003 (first entry)
XX
DE Human PRO 274 PCR primer #4.
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KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
XX
OS Homo sapiens.
XX
FN US2003068648-A1.
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PD 10-APR-2003.
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PR 07-OCT-1998; 98WO-US021141.
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PR 22-DEC-1998; 98US-0113296P.
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PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 98WO-US005028.
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PR 21-APR-1999; 98US-0130232P.
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PR 14-MAY-1999; 98WO-US010733.
PR 02-JUN-1999; 98WO-US012252.
PR 16-JUN-1999; 98US-0139557P.
PR 30-NOV-1999; 98WO-US028313.
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PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
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PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
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PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
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PR 22-MAY-2000; 2000WO-US014042.
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PR 24-AUG-2000; 2000WO-US023328.
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PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUL-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
(GETH) GENENTECH INC.
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI, 2003-695924/66.
XX New isolated secreted and transmembrane PRO polypeptides, useful in the
PT preparation of a medicament for treating a condition responsive to the
PT polypeptide, and as therapeutic agents e.g. vaccines.
XX Example 4; SEQ ID NO 14; 467pp; English.
PS The invention relates to an isolated PRO polypeptide (secreted or
CC transmembrane protein) having at least 80% amino acid sequence identity

PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
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PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131022P.
PR 28-APR-1999; 99US-0131445P.
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PR 23-JUN-1999; 99US-0141037P.
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PR 05-JAN-2000; 99WO-US031274.
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PR 06-JAN-2000; 2000WO-US000277.
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PR 28-FEB-2001; 2001WO-US0006520.
PR 25-MAY-2001; 2001WO-US009552.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
PA (GETH) GENENTECH INC.
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
XX Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
XX Stewart TA, Tumas D, Williams PM, Wood WI;
XX WFI: 2003-657582/62.
XX Novel secreted and transmembrane polypeptides, designated PRO
XX polypeptides, and polynucleotides encoding them useful for treating
XX kidney diseases, bone, cartilage and retinal disorders.
XX Example 4; SEQ ID NO 14; 468pp; English.
XX The invention relates to an isolated PRO polypeptide (secreted or
XX transmembrane protein) having at least 80% amino acid sequence identity
XX to an amino acid sequence chosen from 94 fully defined sequences as given
XX in the specification (including PRO lacking its associated signal
XX peptide, a PRO extracellular domain with or without its associated signal

CC peptide). Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid), a host cell
CC comprising the vector and producing PRO, a chimeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 215 GAACTCGGTGGCGG 228
Db 18 GAACTCGGTGGCGG 5
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ID ADC41055 standard; DNA; 18 BP.
XX AC ADC41055;
XX 18-DEC-2003 (first entry)
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XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;
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XX auditory; tumour growth; retinal disorder; sports-related joint problem;
XX articular cartilage defects; osteoarthritis; rheumatoid arthritis;
XX wound healing; hearing loss; primer.
XX Homo sapiens.
XX US2003072745-A1.
XX 17-APR-2003.
XX 25-OCT-2001; 2001US-00013929.
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XX 13-NOV-1997; 97US-0065311P.
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XX 13-MAR-1998; 98US-0078004P.
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PR 08-MAR-1999; 99WO-US0005028.
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PR 06-JAN-2000; 2000WO-US000376.
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PR 18-FEB-2000; 2000WO-US004341.
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PR 28-FEB-2001; 2001WO-US006520.
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PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
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PR 30-JUL-2001; 2001US-00918585.
XX
PA (GETH) GENENTECH INC.
XX Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI, 2003-743806/70.
XX Novel isolated secreted and transmembrane PRO polypeptides, useful in the
PT preparation of a medicament for treating a condition responsive to the
PT polypeptide, and as therapeutic agents e.g. vaccines.
XX Example 4; SEQ ID NO 14; 466pp; English.
PS The invention relates to an isolated PRO polypeptide (secreted or
XX transmembrane protein) having at least 80% amino acid sequence identity
CC to an amino acid sequence chosen from 94 fully defined sequences as given
CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC peptide). Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
CC comprising the vector and producing PRO, a chimaeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993

CC polypeptide in a sample suspected of containing PRO4993 polypeptide.

CC Similarly, PRO4993 polypeptide is useful for detecting PRO337

Query Match 2.9%; Score 12.4; DB 1; Length 18;
 Best Local Similarity 92.9%; Fred. NO. 4.3e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAACCTCGGTGGCGG 228

DB 18 GAACCTCGGTGGCGG 5

RESULT 702

ADCC67110/c

ID ADC671110 standard; DNA; 18 BP.

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 PR 22-MAR-2001; 2001WO-US009552.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 30-JUL-2001; 2001US-00918585.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kljavin IJ, Kuo SS, Napier WA, Pan J, Paoni NF, Roy MA, Shelton DL;
 PI Stewart TA, Tumas D, Williams PW, Wood WI;
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 DR WPI; 2003-743810/70.
 XX
 PT Novel isolated secreted and transmembrane PRO polypeptides, useful in the
 PT preparation of a medicament for treating a condition responsive to the
 PT polypeptide, and as therapeutic agents e.g. vaccines.
 XX
 PS Example 4; SEQ ID NO 14; 464pp; English.
 XX
 CC The invention describes an isolated secreted and transmembrane PRO
 CC polypeptide (1). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615
 CC is useful in biotechnological and medical research, as well as in various
 CC industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,
 CC PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853,
 CC PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful
 CC therapeutically in vivo for lessening the effects of viral infection.
 CC PRO200 is useful for the treatment of wound healing, tissue growth and
 CC muscle generation and regeneration. PRO337 is useful for treating
 CC amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or

QY 215 GAACTCGGTGGCGG 228
 Db 18 GAACTCGGTGGCGG 5
 RESULT 703
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 ID ADC62046 standard; DNA; 18 BP.
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 AC ADC62046;
 XX
 DT 18-DEC-2003 (first entry)
 XX
 DE Human PRO 274 PCR primer #4.
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 KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 KW wound healing; hearing loss; primer.
 XX
 OS Homo sapiens.
 XX
 PN US2003073624-A1.
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 PD 17-APR-2003.
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 PP 15-OCT-2001; 2001US-00978193.
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Query Match 2.9%; Score 12.4; DB 1; Length 18;
 Best Local Similarity 92.9%; Pred. No. 4.3e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
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PR 28-JUL-2000; 2000WO-US020710.
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XX 18-DEC-2003 (first entry)
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DE
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XX marker gene; tumour; Kaposi's Sarcoma; peripheral blood mononuclear cell;
KW PMMC; expressed keratin 14; TIE 1; Salivoadhesin; Siglec 1; angiogenesis;
KW drug target; tag; SAGE library; KS3; KS4; PCR; primer; ss.
KW
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XX Unidentified.
OS
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XX EP1298221-A1.
DN
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XX 02-APR-2003.
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XX 28-SEP-2001; 2001EP-00203703.
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XX (PRIM-) PRIMAGEN HOLDING BV.
XX
XX Van Der Kuyt AC, Cornelissen M;
PI
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XX WPI; 2003-589342/56.
DR
XX
XX Determining whether a treatment is effective in changing a status of a
PT certain set of target cells in an individual comprises determining
PT whether the sample comprises an expression product of at least one marker
PT gene.
XX
XX Disclosure; SEQ ID NO 144; 94pp; English.
PS
XX
XX The invention relates to a novel method for determining whether a
CC treatment is effective in changing a status of a certain set of target
CC cells in an individual. The method comprises obtaining a sample from an
CC individual after initiation of the treatment; and determining whether the
CC sample comprises an expression product of at least one marker gene. The
CC marker gene and a proteinaceous molecule (which can bind to the protein
CC derived from the marker gene of the invention) are useful for determining
CC whether a treatment is effective in counteracting a tumour in an
CC individual, especially Kaposi's Sarcoma. Peripheral blood mononuclear
CC cell (PBMC) expressed keratin 14, TIE 1, Salivoadhesin, or Siglec 1
CC sequences or a fully defined sequence given in the specification, or
CC their analogues are useful as indicators for angiogenesis and for
CC detecting the presence of a tumour cell in an individual. The expression
CC product of a gene comprising a marker gene of the invention is useful as
CC a drug target. The compound is useful for preparing a medicament. This
CC polynucleotide sequence represents a PCR primer of a Kaposi's Sarcoma tag
CC sequence of the invention.
XX
SQ Sequence 18 BP; 2 A; 8 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
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KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
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 DT 29-JAN-2004 (first entry)
 XX
 DE Human PRO 274 PCR primer #4.
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Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 KW wound healing; hearing loss; primer.
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XX	22-MAY-2003.	
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XX	28-JAN-2002; 2002US-00978187.	
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PR	29-APR-1998; 98US-0083559P.	PR 12-APR-1999; 99US-00284291.
PR	30-APR-1998; 98US-0083742P.	PR 21-APR-1999; 99US-0130232P.
PR	05-MAY-1998; 98US-0084366P.	PR 21-APR-1999; 99US-0130232P.
PR	06-MAY-1998; 98US-0084414P.	PR 26-APR-1999; 99US-0131445P.
PR	06-MAY-1998; 98US-0084414P.	PR 26-APR-1999; 99US-0131445P.
PR	07-MAY-1998; 98US-0084598P.	PR 14-MAY-1999; 99US-00311832.
PR	07-MAY-1998; 98US-0084598P.	PR 14-MAY-1999; 99US-00311832.
PR		PR 14-MAY-1999; 99US-0134287P.
PR		PR 14-MAY-1999; 99US-0134287P.
PR		PR 02-JUN-1999; 99US-0010733.
PR		PR 02-JUN-1999; 99US-0010733.
PR		PR 16-JUN-1999; 99US-0139557P.
PR		PR 16-JUN-1999; 99US-0139557P.
PR		PR 23-JUN-1999; 99US-0141037P.
PR		PR 23-JUN-1999; 99US-0141037P.
PR		PR 07-JUL-1999; 99US-0142680P.
PR		PR 07-JUL-1999; 99US-0142680P.
PR		PR 26-JUL-1999; 99US-0146222P.
PR		PR 26-JUL-1999; 99US-0146222P.
PR		PR 25-AUG-1999; 99US-00380137.
PR		PR 25-AUG-1999; 99US-00380137.
PR		PR 25-AUG-1999; 99US-00380137.
PR		PR 29-OCT-1999; 99US-00380142.
PR		PR 29-OCT-1999; 99US-00380142.
PR		PR 30-NOV-1999; 99US-0162506P.
PR		PR 30-NOV-1999; 99US-0162506P.
PR		PR 02-DEC-1999; 99US-0028551.
PR		PR 02-DEC-1999; 99US-0028551.
PR		PR 02-DEC-1999; 99US-0028565.
PR		PR 16-DEC-1999; 99US-0030095.
PR		PR 16-DEC-1999; 99US-0030095.
PR		PR 30-DEC-1999; 99US-0031243.
PR		PR 30-DEC-1999; 99US-0031243.
PR		PR 05-JAN-2000; 2000US-0000219.
PR		PR 05-JAN-2000; 2000US-0000219.

PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 11-FEB-2000; 2000WO-US003565.
PR 24-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 12-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001WO-US009552.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
XX (GETH) GENENTECH INC.
PA PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Query Match 2.9%; Score 12.4; DB 1; Length 18;
XX Best Local Similarity 92.9%; Pred. No. 4.3e+02;
XX Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 215 GAACTCGGTGGCGG 228
Db 18 GAACTCGGTGGCGG 5
RESULT 707
ADE35102/c
XX ID ADE35102 standard; DNA; 18 BP.
XX AC ADE35102;
XX DT 29-JAN-2004 (first entry)
XX DE Human PRO 274 PCR primer #4.
XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;
XX KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
XX KW auditory; tumour growth; retinal disorder; sports-related joint problem;
XX KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
XX KW wound healing; hearing loss; primer.
XX OS Homo sapiens.
XX OS US2003203434-A1.
XX PN 30-OCT-2003.
XX PD 18-OCT-2001; 2001US-00145088.
XX PF

XX 15-MAY-1998; 98US-0085689P.
PR 08-MAR-1999; 99WO-US005028.
PR 28-APR-1999; 99US-0131445P.
PR 25-AUG-1999; 99US-00380138.
PR 18-FEB-2000; 2000WO-US004341.
PR 30-JUL-2001; 2001US-00918585.
XX (GETH) GENENTECH INC.
PA PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrera N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
XX KJavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
XX Stewart TA, Tumas D, Williams PM, Wood WI;
XX WFI; 2003-875641/81.
XX New genes, and its encoded secreted and transmembrane polypeptides,
XX useful for treating e.g. lung or breast tumors, osteoarthritis,
XX rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
XX hypoinsulinemia or wounds.
XX Example 4; SEQ ID NO 14; 462pp; English.
XX The invention relates to an isolated PRO polypeptide (secreted or
XX transmembrane protein) having at least 80% amino acid sequence identity
XX to an amino acid sequence chosen from 94 fully defined sequences as given
XX in the specification (including PRO lacking its associated signal
XX peptide, a PRO extracellular domain with or without its associated signal
XX peptide). Also included are nucleic acids encoding the PRO proteins
XX mentioned above, a vector comprising a PRO nucleic acid, a host cell
XX comprising the vector and producing PRO, a chimeric molecule comprising
XX PRO fused to a heterologous amino acid sequence, and an anti-PRO
XX antibody. PRO337 polypeptide is useful for detecting a PRO4993
XX polypeptide in a sample suspected of containing PRO4993 polypeptide.
XX Similarly, PRO4993 polypeptide is useful for detecting PRO337
XX polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
XX PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
XX PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
XX bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
XX molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
XX causes death of the cell. PRO337 polypeptide is useful for linking a
XX bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
XX PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
XX to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
XX useful for linking a bioactive molecule to a cell expressing PRO725,
XX PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
XX polypeptide is useful for modulating at least one biological activity of
XX the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
XX polypeptide or anti-PRO4993 polypeptide is useful for modulating the
XX biological activity of the cell expressing PRO4993 polypeptide; PRO725,
XX PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
XX modulating the biological activity of the cell expressing PRO1559
XX polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
XX PRO739 polypeptide is useful for modulating the biological activity of
XX the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
XX polypeptides are useful for inhibiting tumour growth, retinal disorders,
XX sports-related joint problems, articular cartilage defects,
XX osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
XX mammals. The present sequence is a PCR primer used to isolate nucleic
XX acid encoding a PRO protein.
XX Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 215 GAACTCGGTGGCGG 228
Db 18 GAACTCGGTGGCGG 5

RESULT 708
ADE16216/C
ID ADE16216 standard; DNA; 18 BP.
XX
AC ADE16216;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human PRO 274 PCR primer #4.
XX
KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
XX
OS Homo sapiens.
XX
PN US2003203435-A1.
XX
PD 30-OCT-2003.
XX
PF 18-OCT-2001; 2001US-00145092.
XX
PR 30-APR-1998; 98US-0083742P.
PR 08-MAR-1999; 99WO-US005028.
PR 23-JUN-1999; 99US-0141037P.
PR 25-AUG-1999; 99US-00380138.
PR 18-FEB-2000; 2000WO-US004341.
PR 30-JUL-2001; 2001US-00918585.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX
DR WPI; 2003-875642/81.
XX
PT New genes, and its encoded secreted and transmembrane polypeptides,
PT useful for treating e.g. lung or breast tumors, osteoarthritis,
PT rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
PT hypoinsulinemia or wounds.
XX
PS Example 4; SEQ ID NO 14; 452bp; English.
XX
CC The invention relates to an isolated PRO polypeptide (secreted or
CC transmembrane protein) having at least 80% amino acid sequence identity
CC to an amino acid sequence chosen from 94 fully defined sequences as given
CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC peptide). Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
CC comprising the vector and producing PRO, a chimaeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
CC useful for linking a bioactive molecule to a cell expressing PRO725,
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
CC polypeptide is useful for modulating at least one biological activity of

the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
polypeptide or anti-PRO4993 polypeptide is useful for modulating the
biological activity of the cell expressing PRO4993 polypeptide; PRO725,
PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
modulating the biological activity of the cell expressing PRO1559
polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
PRO739 polypeptide is useful for modulating the biological activity of
the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
polypeptides are useful for inhibiting tumour growth, retinal disorders,
sports-related joint problems, articular cartilage defects,
osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
mammals. The present sequence is a PCR primer used to isolate nucleic
acid encoding a PRO protein.
XX
SQ Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;
XX
Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e-02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 215 GAACCTCGTGGCGG 228
DB 18 GAACCTCGTGGCGG 5
RESULT 709
ADD72831/C
ID ADD72831 standard; DNA; 18 BP.
XX
AC ADD72831;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human PRO 274 PCR primer #4.
XX
KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
XX
OS Homo sapiens.
XX
PN US2003203436-A1.
XX
PD 30-OCT-2003.
XX
PF 18-OCT-2001; 2001US-00145129.
XX
PR 22-MAY-1998; 98US-0086414P.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 12-APR-1999; 99US-00284291.
PR 25-AUG-1999; 99US-00380138.
PR 18-FEB-2000; 2000WO-US004341.
PR 30-JUL-2001; 2001US-00918585.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX
DR WPI; 2003-875643/81.
XX
PT New PRO genes and encoded secreted and transmembrane polypeptides, useful
PT for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid
PT arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or
PT wounds.
XX

Example 4; SEQ ID NO 14; 453pp; English.

XX The invention relates to an isolated PRO polypeptide (secreted or
CC transmembrane protein) having at least 80% amino acid sequence identity
CC to an amino acid sequence chosen from 94 fully defined sequences as given
CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC peptide). Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
CC comprising the vector and producing PRO, a chimaeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
CC useful for linking a bioactive molecule to a cell expressing PRO725,
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
CC polypeptide is useful for modulating at least one biological activity of
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
CC modulating the biological activity of the cell expressing PRO1559
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
CC PRO739 polypeptide is useful for modulating the biological activity of
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,
CC sports-related joint problems, articular cartilage defects,
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
CC mammals. The present sequence is a PCR primer used to isolate nucleic
CC acid encoding a PRO protein.

Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;

Best Local Similarity 92.9%; Pred. NO. 4.3e+02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAATCGGTGGCGG 228

Db 18 GAATCGGTGGCGG 5

RESULT 710

ADD72189/c

ID ADD72189 standard; DNA; 18 BP.

XX AC ADD72189;

XX DT 29-JAN-2004 (first entry)

XX DE Human PRO 274 PCR primer #4.

XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;

XX KW opthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;

XX KW auditory; tumour growth; retinal disorder; sports-related joint problem;

XX KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;

XX KW wound healing; hearing loss; primer.

XX OS Homo sapiens.

XX PN US2003194781-A1.

XX PD 16-OCT-2003.

XX

PF 19-OCT-2001; 2001US-00164929.
XX
PR 30-MAR-1998; 98US-0079920P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98WO-US024855.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 15-APR-1999; 99WO-US008313.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380138.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 16-DEC-1999; 99WO-US028565.
PR 30-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.

(GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
XX Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
XX Stewart TA, Tumas D, Williams PM, Wood WI;

WPI; 2003-852598/79.

New secreted and transmembrane PRO nucleic acids and polypeptides, useful for stimulating the release of tumor necrosis factor alpha from human blood and stimulating the proliferation of differentiation of chondrocyte cells.

Example 4; SEQ ID NO 14; 462pp; English.

The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid, a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide.

CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
CC useful for linking a bioactive molecule to a cell expressing PRO725,
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
CC polypeptide is useful for modulating at least one biological activity of
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
CC modulating the biological activity of the cell expressing PRO1559
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
CC PRO739 polypeptide is useful for modulating the biological activity of
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,
CC sports-related joint problems, articular cartilage defects,
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
CC mammals. The present sequence is a PCR primer used to isolate nucleic
CC acid encoding a PRO protein.

XX Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 215 GAACCTCGTGGCGG 228
Db 18 GAACCTCGTGGCGG 5

RESULT 711
ADE16840/C
ID ADE16840 standard; DNA; 18 BP.

XX ADE16840;

XX 29-JAN-2004 (first entry)

XX Human PRO 274 PCR primer #4.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.

XX Homo sapiens.

XX US2003203433-A1.

XX 30-OCT-2003.

XX 18-OCT-2001; 2001US-00145016.

XX 06-MAY-1998; 98US-0084414P.

XX 22-DEC-1998; 98US-0113296P.

XX 05-JAN-1999; 99WO-US000106.

XX 08-MAR-1999; 99WO-US005028.

XX 12-APR-1999; 99US-00284291.

XX 25-AUG-1999; 99US-00380138.

XX 18-FEB-2000; 2000WO-US0004341.

XX 30-JUL-2001; 2001US-00918585.

XX (GETH) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Garritsen ME;
PI Codard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PW, Wood WI;
XX WPI; 2003-875640/81.

XX New genes, and its encoded secreted and transmembrane polypeptides,
PT useful for treating e.g. lung or breast tumors, osteoarthritis,
PT rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
PT hypoinsulinemia or wounds.

XX Example 4; SEQ ID NO 14; 459pp; English.

XX The invention relates to an isolated PRO polypeptide (secreted or
CC transmembrane protein) having at least 80% amino acid sequence identity
CC to an amino acid sequence chosen from 94 fully defined sequences as given
CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC peptide). Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
CC comprising the vector and producing PRO, a chimeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
CC useful for linking a bioactive molecule to a cell expressing PRO725,
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
CC polypeptide is useful for modulating at least one biological activity of
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
CC modulating the biological activity of the cell expressing PRO1559
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
CC PRO739 polypeptide is useful for modulating the biological activity of
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,
CC sports-related joint problems, articular cartilage defects,
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
CC mammals. The present sequence is a PCR primer used to isolate nucleic
CC acid encoding a PRO protein.

XX Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 215 GAACCTCGTGGCGG 228
Db 18 GAACCTCGTGGCGG 5

RESULT 712

ADAE48348/C

ID ADAE48348 standard; DNA; 18 BP.

XX ADAE48348;

XX 29-JAN-2004 (first entry)

XX Human PRO 274 PCR primer #4.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 XX wound healing; hearing loss; primer.
 XX
 OS Homo sapiens.
 XX
 XX US2003104536-A1.
 XX
 PD 05-JUN-2003.
 XX
 PF 19-OCT-2001; 2001US-00166709.
 XX
 PR 07-OCT-1998; 98WO-US021141.
 PR 20-NOV-1998; 98WO-US024855.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 10-MAR-1999; 99WO-US005190.
 PR 12-MAY-1999; 99WO-US010733.
 PR 04-JUN-1999; 99WO-US012252.
 PR 20-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028551.
 PR 16-DEC-1999; 99WO-US030095.
 PR 30-DEC-1999; 99WO-US031243.
 PR 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 11-FEB-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 14-FEB-2000; 2000WO-US004341.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 20-JUN-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 22-MAR-2001; 2001WO-US009552.
 PR 23-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 30-JUL-2001; 2001US-00918585.
 XX
 PA (GETH) GENENTECH INC.
 XX
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 PI Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2004-008994/01.
 DR
 XX
 XX New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO4993 or
 PT PRO337, useful in molecular biology, chromosome and gene mapping, in
 PT generating antisense RNA and DNA, and in gene therapy.
 PT
 XX
 XX Example 4; SEQ ID NO 14; 460pp; English.
 PS
 XX The invention relates to an isolated PRO polypeptide (secreted or
 CC transmembrane protein) having at least 80% amino acid sequence identity

CC to an amino acid sequence chosen from 94 fully defined sequences as given
 CC in the specification (including PRO lacking its associated signal
 CC peptide, a PRO extracellular domain with or without its associated signal
 CC peptide). Also included are nucleic acids encoding the PRO proteins
 CC mentioned above, a vector comprising a PRO nucleic acid), a host cell
 CC comprising the vector and producing PRO, a chimeric molecule comprising
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting a
 CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
 CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
 CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
 CC causes death of the cell. PRO337 polypeptide is useful for linking a
 CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
 CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
 CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
 CC useful for linking a bioactive molecule to a cell expressing PRO725,
 CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
 CC polypeptide is useful for modulating at least one biological activity of
 CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the
 CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,
 CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
 CC modulating the biological activity of the cell expressing PRO1559
 CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
 CC PRO739 polypeptide is useful for modulating the biological activity of
 CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
 CC polypeptides are useful for inhibiting tumour growth, retinal disorders,
 CC sports-related joint problems, articular cartilage defects,
 CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
 CC mammals. The present sequence is a PCR primer used to isolate nucleic
 CC acid encoding a PRO protein.

XX Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;
 Best Local Similarity 92.9%; Pred. No. 4.3e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAACCTCGTGGCGG 228

Db 18 GAACCTCGTGGCGG 5

RESULT 713

ID ADE89449/c standard; DNA; 18 BP.

XX ADE89449;

XX 29-JAN-2004 (first entry)

XX Human PRO 274 PCR primer #4.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 KW wound healing; hearing loss; primer.

OS Homo sapiens.

XX US2003130181-A1.

XX 10-JUL-2003.

XX 16-OCT-2001; 2001US-00978375.

XX 17-OCT-1997; 97US-0062250P.

PR 03-NOV-1997; 97US-0064249P.

PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081953P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083338P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 06-MAY-1998; 98US-0084441P.
PR 07-MAY-1998; 98US-0084598P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085323P.
PR 13-MAY-1998; 98US-0085388P.
PR 13-MAY-1998; 98US-0085398P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085689P.
PR 15-MAY-1998; 98US-0085697P.
PR 15-MAY-1998; 98US-0085700P.
PR 15-MAY-1998; 98US-0085704P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086414P.
PR 22-MAY-1998; 98US-0086430P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087108P.
PR 28-MAY-1998; 98US-0087208P.
PR 28-MAY-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98WO-US024855.
PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 98WO-US005028.
PR 10-MAR-1999; 98WO-US005190.
PR 12-MAR-1999; 98US-0123957P.
PR 29-MAR-1999; 98US-0126773P.
PR 21-APR-1999; 98US-0130232P.
PR 26-APR-1999; 98US-0131022P.
PR 28-APR-1999; 98US-0131445P.
PR 14-MAY-1999; 98US-0134287P.
PR 14-MAY-1999; 98WO-US010733.
PR 02-JUN-1999; 98WO-US012252.
PR 16-JUN-1999; 98US-0139557P.
PR 23-JUN-1999; 98US-0141037P.
PR 07-JUL-1999; 98US-0142680P.
PR 26-JUL-1999; 98US-0145698P.
PR 28-JUL-1999; 98US-0146222P.
PR 28-OCT-1999; 98US-0162506P.
PR 30-NOV-1999; 98WO-US028313.
PR 02-DEC-1999; 98WO-US028551.
PR 02-DEC-1999; 98WO-US028565.
PR 16-DEC-1999; 98WO-US030095.
PR 30-DEC-1999; 98WO-US031243.
PR 30-DEC-1999; 98WO-US031274.
PR 03-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.


```

PR XX 30-JUL-2001; 2001US-00918585.
PA (ASHK/) ASHKENAZI A J.
PA (BAKE/) BAKER K P.
PA (BOTS/) BOTSTEIN D.
PA (DESN/) DESNOYERS L.
PA (EATO/) EATON D L.
PA (FERR/) FERRARA N.
PA (FILV/) FILVAROFF E.
PA (FONG/) FONG S.
PA (GAOW/) GAO W.
PA (GERB/) GERBER H.
PA (GERR/) GERRITSEN M E.
PA (GODD/) GODDARD A.
PA (GODO/) GODOWSKI P J.
PA (GIRM/) GIRMALDI J C.
PA (GURN/) GURNEY A L.
PA (HILL/) HILLAN K J.
PA (KLJA/) KLJAVIN I J.
PA (KUOS/) KUO S S.
PA (NAPI/) NAPIER M A.
PA (PANJ/) PAN J.
PA (PAON/) PAONI N P.
PA (ROYM/) ROY M A.
PA (SHEL/) SHELTON D L.
PA (STEW/) STEWART T A.
PA (TUNA/) TUNAS D.
PA (WILL/) WILLIAMS P M.
PA (WOOD/) WOOD W I.
XX

Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAACTCGGTGGCGG 228
DB 18 GAACTCGGTGGCGG 5

RESULT 714
AAQ11087/c
ID AAQ11087 standard; DNA; 19 BP.
XX
AC AAQ11087;
XX
DT 25-MAR-2003 (revised)
DT 09-JAN-2003 (revised)
DT 30-MAY-1991 (first entry)
XX
DE Probe/primer A(ii) to recombinant M.tuberculosis antigenic peptides.
XX tuberculosis; vaccine; BCG; antigen; ss.
XX
OS Mycobacterium tuberculosis.
XX
PN EP419355-A.
XX
PD 27-MAR-1991.
XX
PF 19-SEP-1990; 90EP-00402590.
XX
PR 19-SEP-1989; 89EP-00402571.
XX
PA (INNO-) INNOGENETICS NV SA.
XX
PI Content J, Dewit L, Debruyne J, Vanvooren JP;
XX WPI; 1991-088933/13.
XX
PT Polypeptide comprising recombinant polypeptide - with defined peptide
sequence(s) used for diagnosis and for preparing vaccine against
tuberculosis.

Claim 23; Page 66; 134pp; English.
This oligonucleotide is one of 13 sequences which hybridise to nucleotide
sequences coding for recombinant tuberculosis antigenic polypeptides.
When used as probes they could differentiate M.tuberculosis from other
bacterial strains. When used as primers, the oligonucleotides amplify
specific mycobacterial sequences (e.g. nucleotides 1-1358 of the BCG
alpha-antigen). Amplified sequences are then detected using one of the
other probes. Primer kits are claimed which comprise primer A(ii) with
the complement of one of the other 13 primers. See also AAQ11081-3,
AAQ11086, AAQ11088-90, AAQ11101-8, AAQ11297-R11304. (Updated on 09-JAN-
2003 to add missing OS field.) (Updated on 25-MAR-2003 to correct PI
field.)
XX
SQ Sequence 19 BP; 1 A; 6 C; 8 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 387 GACGGCGCCAGAA 400
DB 16 GACGGCGCCAGAA 3

RESULT 715
AAQ54140/c
ID AAQ54140 standard; DNA; 19 BP.
XX
AC AAQ54140;
XX
DT 25-MAR-2003 (revised)
DT 15-JUN-1994 (first entry)
XX
DE Hybridisation probe BGI.A.
XX
KW Simultaneous sequencing; ss.
XX
OS Synthetic.
XX
PN WO9324654-A1.
XX
PD 09-DEC-1993.
XX
PF 01-JUN-1993; 93WO-EP001376.
XX
PR 02-JUN-1992; 92DE-04218152.
XX
PA (BOEP) BOEHRINGER MANNHEIM GMBH.
XX
PI Sagner G, Blum H, Domdey H;
XX WPI; 1993-405842/50.
XX
PT Simultaneously sequencing many nucleic acid fragments - by cloning in
vector after attachment of double strands adaptors, and sequencing
selected clones, for high cloning efficiency with only one vector.
XX
PS Example 4; Page 26; 47pp; German.
XX
CC The sequence is that of hybridisation probe BGI.A which was used as part
of a method of simultaneously sequencing nucleic acids. (Updated on 25-
MAR-2003 to correct PN field.)
XX
SQ Sequence 19 BP; 3 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 221 GGTGGCGCCCAAT 234

```

Db 19 GGTGGGGCCACAT 6

RESULT 716

AAT43117

ID AAT43117 standard; DNA; 19 BP.

XX

AC AAT43117;

XX

DT 05-SEP-1997 (first entry)

XX

DE Antisense primer to amplify hormone sensitive lipase gene.

XX

KW Immortalised cell line; pre-adipocyte; viral oncogene; lipolysis; marker;

KW thermogenesis; diabetes; obesity; cell culture; differentiation; mature;

KW medium; insulin; dexamethasone; primer; PCR; polymerase chain reaction;

KW amplification; hormone sensitive lipase; ss.

XX

OS Synthetic.

XX

FN WO9634100-A1.

XX

PD 31-OCT-1996.

XX

PD 25-APR-1996; 96WO-FR000634.

XX

PR 25-APR-1995; 95FR-00004922.

XX

PA (CNRS) CNRS CENT NAT RECH SCI.

XX

PI Strosberg AD, Zilberfarb V;

XX

DR WPI; 1996-497632/49.

XX

PT Immortalised pre-adipocytes contg viral oncogene fragment - useful for

PT identifying cpds that regulate lipolysis and thermogenesis, as lipolytic

PT agents and models for studying adipocyte processes.

XX

PS Example 1; Page 17; 52pp; French.

XX

CC The invention relates to new immortalised cell lines derived from pre-

CC adipocytes containing an immortalising fragment of a viral oncogene. The

CC immortalised adipocytes are used to identify substances able to regulate

CC lipolysis and/or thermogenesis (potential therapeutic agents for treating

CC diabetes and obesity). The cell lines have the advantage that they can be

CC maintained in long term culture (contrast primary cultures of adipocytes)

CC without loss of characteristic markers or ability to differentiate. The

CC immortalised pre-adipocytes differentiate into mature adipocytes when

CC placed in a medium containing insulin and dexamethasone. The primers

CC AAT43098-19 are used to amplify marker genes to verify differentiation of

CC the pre-adipocytes into mature adipocytes. Primers AAT43116-7 were used

CC to amplify a 286 bp region of the gene encoding a hormone sensitive

CC lipase, a marker for mature "brown" adipocytes

XX

SQ Sequence 19 BP; 1 A; 9 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;

Best Local Similarity 92.9%; Pred. No. 4.8e-02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 364 TCCTCAGTTCCTG 377

DB 3 TCCTCAGTTCCTG 16

RESULT 717

AAT16004

ID AAT16004 standard; DNA; 19 BP.

XX

AC AAT16004;

XX

DT 28-JUN-1996 (first entry)

XX

DE 5' allele-specific primer for HLA-Cw6 amplification.

XX

KW tumour rejection antigen; detection; cancer; tissue type; HLA-B44;

KW human leukocyte antigen; immunogenic; primer; PCR; ss.

XX

OS Synthetic.

XX

FN WO9533855-A1.

XX

PD 14-DEC-1995.

XX

PF 31-MAY-1995; 95WO-US006852.

XX

PR 03-JUN-1994; 94US-00253503.

PR 17-JAN-1995; 95US-00373636.

XX

PA (LUDW-) LUDWIG INST CANCER RES.

XX

PI Boon-Falleur T, Coullie P;

XX

DR WPI; 1996-049316/05.

XX

PT Nucleic acid encoding tumour rejection antigen precursor - useful in

PT assay for determining cancerous condition in patient of e.g. tissue type

PT HLA-B44.

XX

PS Example 9; Page 13; 44pp; English.

XX

CC AAT15996-16007 are allele-specific primers that were used to discriminate

CC each of six HLA alleles that had been serologically typed in a LB33 cell

CC line (a melanoma cell line). Amplification refractory mutation system was

CC used, which relies on a perfect nucleotide match at the 3' end of primers

CC to ensure specificity of DNA amplifications. It was suggested that A24-

CC B13-Cw6, and A28-B44-Cw7 constitute two HLA Class I haplotypes of

CC patient LB33, and that reduced expression of these haplotypes probably

CC accounted for loss of antigen expression by immunoselected tumour cells.

CC The invention concerns a nucleic acid (AAT08972) which encodes a tumour

CC rejection antigen, which can be used in determining cancerous conditions

CC in patients of tissue type HLA-B44

XX

SQ Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;

Best Local Similarity 92.9%; Pred. No. 4.8e-02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GAGTGAACCTGCGG 20

DB 3 GAGTGAACCTGCGG 16

RESULT 718

AAT79214

ID AAT79214 standard; DNA; 19 BP.

XX

AC AAT79214;

XX

DT 25-MAR-2003 (revised)

DT 25-FEB-1998 (first entry)

XX

DE HLA-Cw6 allele-specific 5' PCR primer.

XX

KW Tumour rejection antigen precursor; TRAP; HLA-Cw6; HLA-B44;

KW human leukocyte antigen B44; cytotoxic T lymphocyte; cancer; melanoma;

KW therapy; diagnosis; vaccine; primer; PCR; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

FN WO9731017-A1.

XX

PD 28-AUG-1997.

XX

```

PF 05-FEB-1997; 97WO-US001915.
XX
XX 20-FEB-1996; 96US-00602506.
XX
XX (LUDW-) LUDWIG INST CANCER RES.
XX
XX Herman J, Coulie P, Boonfalleur T, Van Der Bruggen P, Luescher I;
XX
XX WPI; 1997-435086/40.
XX
XX Tumour rejection antigens presented by human leukocyte antigen B44
XX molecules - useful to identify HLA-B44 positive cells for diagnosis and
XX therapy of cellular abnormalities.
XX
XX Example 9; Page 15; 74pp; English.
XX
XX 2 Oligonucleotides (AAT79214 and AAT79215) respectively comprise 5' and
XX 3' primers for the specific PCR amplification of HLA-Cw6 sequences.
XX Melanoma LB33 cell lines have been serologically typed as HLA-A24, A28,
XX B13, B44, Cw6, Cw7. Semi-quantitative conditions for DNA amplification by
XX PCR were established to assess the expression of each of the 6 class I
XX alleles by different LB33-MEL tumour cell clones. Primers (AAT79206-17)
XX were designed to enable discrimination of each allele from the 5 others.
XX The results suggest that A24-B13-Cw6 and A28-B44-Cw7 constitute 2 HLA
XX class I haplotypes of patient LB33, and that reduced expression of these
XX haplotypes accounts for loss of antigen expression by immunoselected
XX tumour cells. Claimed tumour rejection antigens (see AAT23038-43)
XX presented by HLA-B44 molecules can be used in methods for the diagnosis
XX and therapy of cellular abnormalities involving expression of a tumour
XX rejection antigen precursor, such as cancer, especially melanoma.
XX (Updated on 25-MAR-2003 to correct PI field.)
XX
XX Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.4; DB 1; Length 19;
XX Best Local Similarity 92.9%; Pred. NO. 4.8e+02;
XX Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 7 GAGTGAACCTGCGG 20
XX ||||| |||||
XX DB 3 GAGTGAACCTGCGG 16
XX
XX RESULT 719
XX AAT92948
XX ID AAT92948 standard; RNA; 19 BP.
XX
XX AC AAT92948;
XX
XX DT 24-APR-1998 (first entry)
XX
XX Antisense oligonucleotide which inhibits VEGF expression.
XX
XX Antisense oligonucleotide; cellular vascular endothelial growth factor;
XX VEGF; vascular permeability factor; blood vessel formation; angiogenesis;
XX vascular permeability induction; disease progression;
XX increased angiogenesis; phosphorothioate; ss.
XX
XX OS Synthetic.
XX OS Homo sapiens.
XX
XX FH Key Location/Qualifiers
XX modified_base 1..19
XX FT /*tag= a
XX FT /note= "Phosphorothioate linkage between each residue; C5
XX FT -propynyl pyrimidines"
XX
XX PN WO9739120-A2.
XX
XX DT 23-OCT-1997.
XX
XX PF 17-APR-1997; 97WO-US006412.
XX
XX
XX 17-APR-1996; 96US-0015752P.
XX (ARON-) ARONEX PHARM INC.
XX
XX Chaudhary N, Rao T, Revankar GR, Cossum PA, Rando RF, Peyman A;
XX Uhlmann E;
XX
XX WPI; 1997-526457/48.
XX
XX Antisense oligonucleotide(s) inhibiting VEGF expression - used for
XX treating diseases characterised by vascularisation and vascular
XX permeability, e.g. diabetic retinopathy.
XX
XX Claim 40; Page 43; 64pp; English.
XX
XX Novel antisense oligonucleotides AAT92942-62 reduce cellular vascular
XX endothelial growth factor (VEGF) production in cells. Inclusion of a C5-
XX propynyl uridine, or a C5-propynyl cytidine nucleotide residue in the
XX oligonucleotide sequence increases the duplex melting temperature by at
XX least 5 degrees celcius. VEGF, also known as vascular permeability
XX factor, is necessary for the formation of blood vessels (angiogenesis)
XX during growth and developmental processes, and for tissue repair. This
XX growth factor induces vascular permeability, is chemotactic for monocytes
XX and osteoblasts, and is a selective mitogen for endothelial cells.
XX Abnormally high concentrations of VEGF are associated with diseases
XX characterised by a high degree of vascularisation or vascular
XX permeability. Cells treated with the antisense oligonucleotides at
XX concentrations of less than 1 micromolar, produce no more than 90% of the
XX VEGF that is produced by untreated cells. The antisense oligonucleotides
XX can be used for slowing the progression of diseases associated with
XX increased angiogenesis and vascular permeability. They can be used in the
XX treatment of diabetic retinopathy, aggressive cancers, psoriasis,
XX rheumatoid arthritis and other inflammatory conditions
XX
XX Sequence 19 BP; 5 A; 5 C; 6 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.4; DB 1; Length 19;
XX Best Local Similarity 85.7%; Pred. NO. 4.8e+02;
XX Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 39 GAAGATGCCACCA 52
XX ||||| ||||| |||||
XX DB 1 GAAGATGCCACCA 14
XX
XX RESULT 720
XX AAT62046
XX ID AAT62046 standard; DNA; 19 BP.
XX
XX AC AAT62046;
XX
XX DT 25-MAR-2003 (revised)
XX DT 29-OCT-1997 (first entry)
XX
XX DE HLA-Cw6 allele 5' PCR primer.
XX
XX KW HLA-B24; HLA-B44; tumour rejection antigen precursor; TRAP; cancer;
XX KW human; melanoma; diagnosis; therapy; polymerase chain reaction; PCR;
XX KW primer; ss.
XX
XX OS Synthetic.
XX
XX PN WO9710837-A1.
XX
XX DT 27-MAR-1997.
XX
XX PF 19-SEP-1996; 96WO-US015078.
XX
XX PR 21-SEP-1995; 95US-00531864.
XX
XX PA (LUDW-) LUDWIG INST CANCER RES.
XX
XX Herman J, Coulie P, Van Der Bruggen P, Boonfalleur T;
XX

```

XX WPI; 1997-202614/18.
 XX HLA-B44 molecule binding peptide(s) - useful to identify HLA-B44 positive
 PT cells, and develop products for diagnosis and therapy of, e.g. cancer.
 XX
 PS Example 9; Page 13; 55pp; English.
 XX
 CC This 5' primer is specific for class I allele HLA-Cw6. Allele-specific
 CC primers (AAT62038-49) enable discrimination of each of the six class I
 CC alleles (HLA-A24, A28, B13, B44, Cw6 and Cw7) of melanoma patient IB33.
 CC DNA from different LB33-MEL tumour cell clones was subjected to PCR
 CC amplification. The results showed that A24-B13-Cw6 and A28-B44-Cw7
 CC constitute two HLA class I haplotypes of patient IB33, and that reduced
 CC expression of these haplotypes probably accounts for loss of antigen
 CC expression by immunoselected tumour cells. HLA-B44 binding peptides
 CC (AAW13251-56) can be used to identify HLA-B44 positive cells, and to
 CC develop products for the diagnosis and therapy of e.g. cancer,
 CC particularly melanoma. (Updated on 25-MAR-2003 to correct PI field.)
 XX
 SQ Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 7 GAGTCGAACCTGCGG 20
 Db |||||
 3 GAGTCGAACCTGCGG 16
 RESULT 721
 AAX59110/c
 ID AAX59110 standard; DNA; 19 BP.
 XX
 AC AAX59110;
 XX
 DT 31-AUG-1999 (first entry)
 DE Human nuclear receptor nR5 PCR primer R5R4.
 XX
 DE Human nuclear receptor nR5; human; retina; eye disease; therapy;
 KW diagnosis; PCR; primer; ss.
 XX
 OS Synthetic.
 OS Homo sapiens.
 XX
 PN WO9929725-A1.
 XX
 PD 17-JUN-1999.
 XX
 PF 11-DEC-1998; 98WO-US026422.
 XX
 PR 12-DEC-1997; 97US-0069379P.
 XX
 PA (MERI) MERCK & CO INC.
 XX
 PI Chen F;
 XX
 DR WPI; 1999-385576/32.
 XX
 PT DNA encoding human nuclear receptor nR5.
 XX
 PS Example 1; Page 32; 57pp; English.
 XX
 CC This oligonucleotide comprises PCR primer R5R4, which was used with
 CC primer R5F3 (see AAX59109) to define the intron-exon boundary in a cDNA
 CC clone (see AAX59096) that had been isolated from a human retina cDNA
 CC library and which coded for a novel member of the nuclear receptor
 CC superfamily. An intronless clone (see AAX59095) was subsequently
 CC amplified from the retina cDNA library. This encoded nR5 (see AAY06301),
 CC a novel member of the human nuclear factor superfamily. nR5 is expressed
 CC at high levels in the retina and may therefore play a role in eye

CC function. The invention also provides recombinant vectors and host cells,
 CC methods of screening for modulators of nR5 activity, and production of
 CC antibodies against nR5
 XX
 SQ Sequence 19 BP; 2 A; 7 C; 8 G; 2 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 336 GACCAGGCGCGGCT 349
 Db |||||
 18 GCCCAGGCGCGGCT 5
 RESULT 722
 AAZ87065/c
 ID AAZ87065 standard; DNA; 19 BP.
 XX
 AC AAZ87065;
 XX
 DT 16-MAY-2000 (first entry)
 XX
 DE RBP-7 microsequencing primer for marker 5-143-84.
 XX
 KW RBP-7; retinoblastoma binding protein-7; abnormal cell proliferation;
 KW diagnosis; therapy; cell differentiation; thyroid hyperplasia; psoriasis;
 KW benign prostate hypertrophy; cancer; sarcoma; neoplasm; leukaemia;
 KW lymphoma; biallelic marker; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200000607-A1.
 XX
 PD 06-JAN-2000.
 XX
 PF 30-JUN-1999; 99WO-IB001242.
 XX
 PR 30-JUN-1998; 98US-0091315P.
 PR 10-DEC-1998; 98US-0111909P.
 XX
 PA (GEST) GENSET.
 XX
 PI Bougueleret L;
 XX
 DR WPI; 2000-117170/10.
 XX
 PT Novel nucleic acid and polymorphic markers used for diagnosis of
 PT diseases, especially those involving abnormal cell proliferation and
 PT differentiation.
 XX
 PS Claim 15; Page 218; 223pp; English.
 XX
 CC This sequence represents a microsequencing primer for a biallelic marker
 CC from the retinoblastoma binding protein-7 (RBP-7) genomic sequence
 CC (AAZ86967) of the invention. The RBP-7 coding sequence and regulatory
 CC sequences are useful for the recombinant production of the protein and
 CC for expressing heterologous nucleic acids. Primers and probes derived
 CC from the RBP-7 nucleotide sequence (such as this sequence) are useful for
 CC DNA amplification and detection methods. RBP-7 biallelic markers (see
 CC AAZ86993-287034) are useful for diagnosis of disease related to
 CC alteration in the regulation or in the coding regions of the RBP-7 gene
 CC and for prognosis/diagnosis of an eventual treatment with therapeutic
 CC agents, especially agents acting on pathologies involving abnormal cell
 CC proliferation and/or differentiation, these include thyroid hyperplasia,
 CC psoriasis, benign prostate hypertrophy, cancers, including breast cancer,
 CC sarcomas and other neoplasms, bladder cancer, colon cancer, lung cancer,
 CC prostate cancer, various leukaemias, and lymphomas. RBP-7 antibodies are
 CC useful as diagnostic agents
 XX
 SQ Sequence 19 BP; 3 A; 9 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.4; DB 1; Length 19;

Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 55 CAGAGGAGTCTCTG 68
DB 14 CAGAGGAGTCTCTG 1
RESULT 723
AAH02312
ID AAH02312 standard; DNA; 19 BP.
XX
AC AAH02312;
XX
DT 12-JUN-2001 (first entry)
XX
DE Human lipoprotein lipase coding sequence fragment SEQ ID NO: 6.
XX
KW Database; polymorphism; SNP; human; genetic marker; disease; infection;
KW drug response; ds.
XX
OS Homo sapiens.
XX
PN WO200127857-A2.
XX
PD 19-APR-2001.
XX
PF 13-OCT-2000; 2000WO-US028413.
XX
PR 13-OCT-1999; 99US-0159176P.
PR 10-JUL-2000; 2000US-0217251P.
PR 10-JUL-2000; 2000US-0217658P.
PR 19-SEP-2000; 2000US-0066396P.
XX
PA (SEQ-) SEQUENOM INC.
XX
XX Braun A, Koester H, Van Den Boom D, Ping Y, Rodi C, He L;
PI Chiu N, Jurinke C;
XX
XX WPI; 2001-273865/28.
XX
XX Producing a database for identifying polymorphic genetic markers,
PT comprises obtaining data relating to members of a healthy population and
PT entering the information into a database.
XX
XX Example 1; Page 182; 304pp; English.
XX
XX The present invention provides a database of human samples obtained from
CC healthy individuals which can be used to identify polymorphic genetic
CC markers. Data obtained for the database can be used to sort the samples
CC by parameters such as age, sex and ethnicity. This is useful in linking
CC markers with diseases, susceptibility to infection and drug responses.
CC The present sequence was used in an assay to demonstrate the uses of the
CC database of the invention
XX
XX Sequence 19 BP; 2 A; 9 C; 6 G; 2 T; 0 U; 0 Other;
QY Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 238 GAGGCTGCTCTCCG 251
DB 5 GAGGCTGCTCTCCG 18
RESULT 724
ABL53403
ID ABL53403 standard; DNA; 19 BP.
XX
AC ABL53403;
XX
DT 31-MAY-2002 (first entry)
XX

XX Haemagglutination or haemadsorption related DNA SK-2.
DE
XX Haemagglutination; haemadsorption; fungal infection; phenoloxidase; ds.
KW
XX Unidentified.
OS
XX KR2001005404-A.
PN
XX 15-JAN-2001.
PD
XX 28-JUN-1999; 99KR-00026408.
PF
XX 28-JUN-1999; 99KR-00026408.
PR
XX (SAMY-) SAMYANG GENEX CORP.
PA
XX Hong SS, Lee BR, Lee HS, Lee HS, Park JJ;
PI WPI; 2001-472806/51.
XX
XX Protein related to hemagglutination or hemadsorption reaction and gene
PT thereof.
XX
XX Disclosure; Page 7; 9pp; Korean.
XX
XX The invention relates to a protein related to the hemagglutination or
CC hemadsorption reaction and the gene thereof are provided to screen
CC effective candidates in the diagnosis of fungal infection. The protein of
CC the invention performs coagulation of foreign material. A phenoloxidase
CC distinguishes and recognises self and non-self selectively. The
CC phenoloxidase and the gene thereof induce coagulation and adsorption of a
CC foreign material by using blood cell so as to block diffusion. The
CC protein selectively removes fungi and bacteria invading a body, and is
CC used in the diagnosis of pathogenic foreign material. A pro-phenoloxidase
CC is used in detection of melanin forming repressor. The current sequence
CC represents haemagglutination or haemadsorption related DNA referred to as
CC SK-2
XX
XX Sequence 19 BP; 5 A; 5 C; 8 G; 1 T; 0 U; 0 Other;
SQ
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 39 GAAGATGGCCACCA 52
DB 4 GAAGATGGCCACCA 17
RESULT 725
AAH24334/c
ID AAH24334 standard; DNA; 19 BP.
XX
XX AAH24334;
AC
XX 06-AUG-2001 (first entry)
DT
XX F2718 (pIR-BgIII-forward) miz-1 proto-oncogene PCR primer.
DE
XX F2718; miz-1; forward PCR primer; Leishmania tarentolae; proto-oncogene;
KW ss; pIR-BgIII-forward; colony-PCR.
XX
XX Synthetic.
OS
XX WO200132896-A1.
PN
XX 10-MAY-2001.
PD
XX 02-NOV-2000; 2000WO-EP010794.
PF
XX 05-NOV-1999; 99EP-00122222.
PR
XX

CC The invention relates to an in vivo or in vitro cell-free method for
CC genetic repair of mutations in plasmid genes. The method involves
CC reacting a plasmid which contains a specific point or frameshift mutation
CC of interest, a chimeric RNA/DNA oligonucleotide or a modified single
CC stranded oligonucleotide which is believed to contain the genetic code
CC for correcting the gene mutation, and a chloroplast extract taken from
CC the plant of interest. The method of the invention is useful for plasmid
CC genetic repair. It may also be used in the mechanistic study of plant
CC gene repair, and facilitates the direct comparison between plant nuclear
CC and organelle DNA repair pathways. The cell-free assay may be used in
CC elucidating plasmid DNA recombination and repair pathways in plant cells
CC as well as the identification and characterisation of proteins involved
CC in the process. The current sequence represents a fragment of the
CC chimeric oligonucleotide Kan4021C. This sequence is used in an example
CC from the invention in which a point mutation in the kanamycin resistance
CC gene contained in plasmid pKsm4021 is converted in order to restore
CC kanamycin resistance activity. The chimeric oligonucleotide fragment
CC given here shows that the base conversion has occurred
CC
SQ Sequence 19 BP; 4 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 155 CGGCTTCGACTCGG 168
DB 4 CGGCTACGACTCGG 17
RESULT 727
AD25739/C
ID ADA25739 standard; RNA; 19 BP.
XX
AC ADA25739;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human REL-A short interfering nucleic acid SEQ ID NO:87.
XX
KW short interfering nucleic acid; siNA; nuclear factor kappa B; NF-kappaB;
KW RNA interference; vasotropic; nontropic; antiparkinsonian;
KW neuroprotective; cytostatic; antiinflammatory; antiallergic; virucide;
KW anti-HIV; immunosuppressive; anticonvulsant; nephrotoxic; gene therapy;
KW modulation; inhibition; restenosis; central nervous system lesion;
KW Alzheimer's disease; Parkinson's disease; Huntington's disease; epilepsy;
KW dementia; amyotrophic lateral sclerosis; cancer; allergic disease;
KW polycystic kidney disease; inflammatory disease; viral infection;
KW human; v-rel reticuloendotheliosis viral oncogene homologue A; REL-A;
KW nuclear factor; ss.
OS Synthetic.
OS Homo sapiens.
XX
PN WO2003070970-A2.
XX
PD 28-AUG-2003.
XX
PP 20-FEB-2003; 2003WO-US004951.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 13-JAN-2003; 2003US-0440129P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Mcswiggen J, Beigelman L;
XX

PA (JENA-) JENA BIOSCIENCE GMBH.
XX
FI Alexandrov K, Grun M;
XX
DR WPI; 2001-316448/33.
XX
PT A new recombinant protein expression system using non pathogenic
PT Kinetoplastidae type host cells such as Leishmania tarentolae allows
PT large scale production on inexpensive media.
XX
PS Example 1; Page 15; 37pp; English.
XX
CC The present sequence represents PCR forward primer-F2718 (pIR-BgIII-
CC forward), used to identify clones of E. coli TG1 which had been
CC transformed with the pIR plasmid containing the miz-1 sequence insert in
CC the right orientation. The present sequence was used to identify these
CC clones using colony-PCR. This was part of an experiment of the invention
CC to express miz-1 in Leishmania tarentolae. The invention comprises an
CC expression and delivery system for the production of recombinant protein
CC with cultivated non-pathogenic Kinetoplastidae parasites. The invention
CC is used to express heterologous proteins or to deliver heterologous
CC proteins into plant or animal cells, unlike prior art recombinant protein
CC expression in Kinetoplastidae, this invention uses non-pathogenic species
CC which do not carry the associated health risks, does not require
CC expensive, uncommon media, and has a relatively high growth rate
CC
SQ Sequence 19 BP; 2 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 255 TCGCCACCGGTGCA 268
DB 15 TCGACACCGGTGCA 2
RESULT 726
ABQ79482
ID ABQ79482 standard; DNA; 19 BP.
XX
AC ABQ79482;
XX
DT 15-NOV-2002 (first entry)
XX
DE Chimeric oligonucleotide Kan4021C fragment #2.
XX
KW Mutation; genetic repair; point mutation; frameshift mutation; plant;
KW plasmid; chloroplast; repair; DNA recombination; ss.
OS Synthetic.
XX
PN WO200259380-A2.
XX
PD 01-AUG-2002.
XX
PP 07-JAN-2002; 2002WO-US000338.
XX
PR 05-JAN-2001; 2001US-0260076P.
XX
PA (ROBE-) ROBERTS NOBLE FOUND INC SAMMUEL.
XX
PI May GD, Kmiec EB;
XX
DR WPI; 2002-599808/54.
XX
PT Modifying a target site of a plasmid gene-of-interest, useful for plant
PT genetic repair, comprises reacting chimeric RNA/DNA oligonucleotides or
PT modified DNA oligonucleotides in conjunction with a cell-free chloroplast
PT lysate.
XX
PS Example 1; Fig 2; 28pp; English.
XX

DR WPI; 2003-689788/55.
 XX New short interfering nucleic acid downregulates expression of the NF-
 PT kappaB gene useful e.g. for treatment and diagnosis of cancer and
 PT inflammation.
 XX Example 3; Page 129; 149pp; English.
 XX The present invention describes a short interfering nucleic acid (siNA)
 CC that downregulates expression of a nuclear factor kappa B (NF-kappaB)
 CC gene by RNA interference. Also described: (1) kits for in vitro or in
 CC vivo delivery of siNA; (2) conjugates and/or complexes of siNA; and (3)
 CC vectors that express siNA. The siNAs have vasotropic, neurotropic,
 CC antiparkinsonian, neuroprotective, cytostatic, antiinflammatory,
 CC anti-allergic, virucide, anti-HIV, immunosuppressive, anticonvulsant and
 CC nephrotropic activities, and can be used in gene therapy, and for the
 CC modulation (inhibition) of expression or activity of NF-kappaB by RNA
 CC interference (siNA target mRNA, RNA splice variants, post-
 CC transcriptionally modified RNA, pre-RNA and/or RNA templates). The siNA
 CC sequences can be used to modulate expression of NF-kappaB genes, in
 CC cells, tissue explants or organisms, e.g. by ex vivo gene therapy, in
 CC grafts and transplants for treating restenosis and central nervous system
 CC lesions and injuries (Alzheimer's, Parkinson's or Huntington's diseases,
 CC epilepsy, dementia or amyotrophic lateral sclerosis) or for treating many
 CC cancers, other proliferative diseases (restenosis and polycystic kidney
 CC disease), inflammatory and/or allergic diseases, viral infections
 CC (including HIV), autoimmune diseases and transplant rejection, and also
 CC for drug screening; diagnosis; target identification and validation;
 CC genetic engineering; pharmacogenomics; studying gene function and gene
 CC mapping (e.g. of single-nucleotide polymorphisms). The present sequence
 CC represents human v-rel reticuloendotheliosis viral oncogene homologue A
 CC (REL-A) siNA, which is used in the exemplification of the present
 CC invention. REL-A is a nuclear factor of the kappa light polypeptide gene
 CC enhancer in B-cells.
 XX Sequence 19 BP; 1 A; 9 C; 8 G; 0 T; 1 U; 0 Other;
 SQ
 Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 305 GAGCCCGGGGACC 318
 DB 15 GAGCCCGGGGCCC 2
 |||||
 RESULT 728
 ADA26088
 ID ADA26088 standard; RNA; 19 BP.
 XX ADA26088;
 AC
 XX 20-NOV-2003 (first entry)
 DT
 XX Human REL-A short interfering nucleic acid SEQ ID NO:223.
 DE
 XX short interfering nucleic acid; siNA; nuclear factor kappa B; NF-kappaB;
 KW RNA interference; vasotropic; neurotropic; antiparkinsonian;
 KW neuroprotective; cytostatic; antiinflammatory; anti-allergic; virucide;
 KW anti-HIV; immunosuppressive; anticonvulsant; nephrotropic; gene therapy;
 KW modulation; inhibition; restenosis; central nervous system lesion;
 KW Alzheimer's disease; Parkinson's disease; Huntington's disease; epilepsy;
 KW dementia; amyotrophic lateral sclerosis; cancer;
 KW polycystic kidney disease; inflammatory disease; allergic disease;
 KW viral infection; HIV; autoimmune disease; transplant rejection; ribozyme;
 KW human; v-rel reticuloendotheliosis viral oncogene homologue A; REL-A;
 KW nuclear factor; ss.
 XX
 XX Synthetic.
 OS Homo sapiens.
 XX
 XX WO2003070970-A2.
 PN
 XX

PD 28-AUG-2003.
 XX
 PF 20-FEB-2003; 2003WO-US004951.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 03-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 PI McSwiggen J, Beigelman L;
 XX
 XX WPI; 2003-689788/55.
 DR
 XX New short interfering nucleic acid downregulates expression of the NF-
 PT kappaB gene useful e.g. for treatment and diagnosis of cancer and
 PT inflammation.
 XX Example 3; Page 129; 149pp; English.
 PS
 XX The present invention describes a short interfering nucleic acid (siNA)
 CC that downregulates expression of a nuclear factor kappa B (NF-kappaB)
 CC gene by RNA interference. Also described: (1) kits for in vitro or in
 CC vivo delivery of siNA; (2) conjugates and/or complexes of siNA; and (3)
 CC vectors that express siNA. The siNAs have vasotropic, neurotropic,
 CC antiparkinsonian, neuroprotective, cytostatic, antiinflammatory,
 CC anti-allergic, virucide, anti-HIV, immunosuppressive, anticonvulsant and
 CC nephrotropic activities, and can be used in gene therapy, and for the
 CC modulation (inhibition) of expression or activity of NF-kappaB by RNA
 CC interference (siNA target mRNA, RNA splice variants, post-
 CC transcriptionally modified RNA, pre-RNA and/or RNA templates). The siNA
 CC sequences can be used to modulate expression of NF-kappaB genes, in
 CC cells, tissue explants or organisms, e.g. by ex vivo gene therapy, in
 CC grafts and transplants for treating restenosis and central nervous system
 CC lesions and injuries (Alzheimer's, Parkinson's or Huntington's diseases,
 CC epilepsy, dementia or amyotrophic lateral sclerosis) or for treating many
 CC cancers, other proliferative diseases (restenosis and polycystic kidney
 CC disease), inflammatory and/or allergic diseases, viral infections
 CC (including HIV), autoimmune diseases and transplant rejection, and also
 CC for drug screening; diagnosis; target identification and validation;
 CC genetic engineering; pharmacogenomics; studying gene function and gene
 CC mapping (e.g. of single-nucleotide polymorphisms). The present sequence
 CC represents human v-rel reticuloendotheliosis viral oncogene homologue A
 CC (REL-A) siNA, which is used in the exemplification of the present
 CC invention. REL-A is a nuclear factor of the kappa light polypeptide gene
 CC enhancer in B-cells.
 XX Sequence 19 BP; 1 A; 8 C; 9 G; 0 T; 1 U; 0 Other;
 SQ
 Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 305 GAGCCCGGGGACC 318
 DB 5 GAGCCCGGGGCCC 18
 |||||
 RESULT 729
 ADD00605/c
 ID ADD00605 standard; RNA; 19 BP.
 XX ADD00605;
 AC
 XX 01-JAN-2004 (first entry)
 DT
 XX HCV coding region-derived 50% conserved RNA sequence 551.
 DE
 XX HCV infection; replication; pathogenesis; virucide; vaccine;
 KW

KW gene therapy; ds.
 OS Hepatitis C virus.
 XX WO2003016572-A1.
 XX 27-FEB-2003.
 XX 16-AUG-2002; 2002WO-US021843.
 XX 17-AUG-2001; 2001US-0313076P.
 PR 20-DEC-2001; 2001US-0344116P.
 PR 01-FEB-2002; 2002US-0353750P.
 XX (ELIL) LILLY & CO ELI.
 XX Zhao G, Lu J, Glass JI, Martinez A, Yang Y;
 XX WPI; 2003-268345/26.
 XX New double stranded RNA oligonucleotide, useful for preparing a
 PT composition for treating or preventing hepatitis C virus.
 XX Disclosure; Page 90; 173pp; English.
 XX The invention relates to a novel isolated double stranded RNA
 CC oligonucleotide about 19 to about 25 ribonucleotides in length or its
 CC equivalent. One strand of the oligonucleotide comprises the same
 CC nucleotide sequence as a region of a hepatitis C virus (HCV) target RNA
 CC polynucleotide sequence required for hepatitis C virus infection,
 CC replication or pathogenesis in vitro or in vivo in a host cell. The
 CC oligonucleotide of the invention demonstrates virucide activity and may
 CC be useful for preparing a composition or vaccine for treating or
 CC preventing hepatitis C virus, as well as during gene therapy procedures.
 CC The current sequence is that of the HCV coding region-derived conserved
 CC RNA sequence of the invention.
 XX Sequence 19 BP; 3 A; 7 C; 2 G; 0 T; 7 U; 0 Other;
 SQ
 Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 GGAGTGAAACTGCG 19
 DB 19 GGAGTGAAACTGCG 6
 RESULT 730
 ADD00606/c
 ID ADD00606 standard; RNA; 19 BP.
 XX
 AC ADD00606;
 XX
 DT 01-JAN-2004 (first entry)
 XX
 DE HCV coding region-derived 50% conserved RNA sequence 552.
 XX
 KW HCV infection; replication; pathogenesis; virucide; vaccine;
 KW gene therapy; ds.
 XX
 OS Hepatitis C virus.
 XX
 PN WO2003016572-A1.
 XX
 PD 27-FEB-2003.
 XX
 PF 16-AUG-2002; 2002WO-US021843.
 XX
 PR 17-AUG-2001; 2001US-0313076P.
 PR 20-DEC-2001; 2001US-0344116P.
 PR 01-FEB-2002; 2002US-0353750P.
 XX

PA (ELIL) LILLY & CO ELI.
 XX Zhao G, Lu J, Glass JI, Martinez A, Yang Y;
 XX WPI; 2003-268345/26.
 XX New double stranded RNA oligonucleotide, useful for preparing a
 PT composition for treating or preventing hepatitis C virus.
 XX Disclosure; Page 90; 173pp; English.
 XX The invention relates to a novel isolated double stranded RNA
 CC oligonucleotide about 19 to about 25 ribonucleotides in length or its
 CC equivalent. One strand of the oligonucleotide comprises the same
 CC nucleotide sequence as a region of a hepatitis C virus (HCV) target RNA
 CC polynucleotide sequence required for hepatitis C virus infection,
 CC replication or pathogenesis in vitro or in vivo in a host cell. The
 CC oligonucleotide of the invention demonstrates virucide activity and may
 CC be useful for preparing a composition or vaccine for treating or
 CC preventing hepatitis C virus, as well as during gene therapy procedures.
 CC The current sequence is that of the HCV coding region-derived conserved
 CC RNA sequence of the invention.
 XX Sequence 19 BP; 4 A; 6 C; 2 G; 0 T; 7 U; 0 Other;
 SQ
 Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 GGAGTGAAACTGCG 19
 DB 18 GGAGTGAAACTGCG 5
 RESULT 731
 ADD69764
 ID ADD69764 standard; DNA; 19 BP.
 XX
 AC ADD69764;
 XX
 DT 15-JAN-2004 (first entry)
 XX
 DE Human ERR gamma 3-related PCR primer - SEQ ID 13.
 XX
 KW nuclear receptor; ERR gamma 3; oestrogen receptor-related receptor;
 KW oestrogen receptor; ER; thyroid hormone; TR; human; ss; PCR; primer.
 XX
 OS Homo sapiens.
 XX
 PN WO2003080831-A1.
 XX
 PD 02-OCT-2003.
 XX
 PF 25-MAR-2003; 2003WO-JP003611.
 XX
 PR 25-MAR-2002; 2002JP-00084560.
 XX
 PA (FUJI) FUJISAWA PHARM CO LTD.
 XX
 PI Kojo H, Tajima K, Fukagawa M, Nishimura S, Isogai T;
 XX WPI; 2003-779262/73.
 XX
 PT Polynucleotides encoding nuclear receptors, and the encoded proteins,
 PT useful as diagnostic agents, and for identification of agents that affect
 PT receptor activity.
 XX
 PS Example 6; SEQ ID NO 13; 148pp; Japanese.
 XX
 CC The invention relates to novel nuclear receptor ERR (oestrogen receptor-
 CC related receptor) gamma 3 polynucleotides. The polynucleotides of the
 CC invention may be useful for diagnosis of disorders caused by abnormal
 CC nuclear receptor activity, particularly those related to abnormal

CC oestrogen receptor (ER), ER or thyroid hormone receptor (TR) activity.
 CC Furthermore, the polynucleotides and proteins may be useful for
 CC evaluating agents that affect the activity of nuclear receptors. The
 CC current sequence is that of the human ER gamma 3-related PCR primer (SEQ
 CC ID 13) of the invention.

XX Sequence 19 BP; 3 A; 7 C; 2 G; 7 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 63 TCTCTGCACTACGA 76
 ||| ||||| |||||
 DB 6 TCCTGCACTACGA 19

RESULT 732
 ADE13385
 ID ADE13385 standard; DNA; 19 BP.

XX AC ADE13385;
 XX DT 29-JAN-2004 (first entry)
 XX DE HLA class I allele specific primer #1.
 XX ss; primer; PCR; human; Human Leukocyte Antigen; HLA; genotype.
 XX OS Homo sapiens.

XX US2003165884-A1.
 XX PD 04-SEP-2003.

XX PF 25-APR-2002; 2002US-00133779.
 XX PR 20-DEC-1999; 99US-0172768P.
 XX PR 20-DEC-2000; 2000US-00747391.

XX (STEM-) STEM-CYTE INC.

XX Chow R, Tonai R;
 XX WPI; 2003-874916/81.

XX Identifying class I or II Human Leukocyte Antigen genotypes using
 XX hybridization and amplification assays.

XX Claim 7; SEQ ID NO 1; 66pp; English.

XX The invention relates to a method of identifying a class I or II Human
 CC Leukocyte Antigen (HLA) genotype of a subject using hybridisation and
 CC amplification assay. The method is used for determining the HLA genotype
 CC of a subject. The present sequence represents a HLA class I allele
 CC specific primer.

XX Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GAGTGAACCTGCGG 20
 ||||| ||||| |||||
 DB 3 GAGTGAACCTGCGG 16

RESULT 733
 ADE13501
 ID ADE13501 standard; DNA; 19 BP.
 XX AC ADE13501;

XX

29-JAN-2004 (first entry)

XX HLA class I allele specific primer #117.

XX ss; primer; PCR; human; Human Leukocyte Antigen; HLA; genotype.

XX OS Homo sapiens.

XX US2003165884-A1.

XX PD 04-SEP-2003.

XX PF 25-APR-2002; 2002US-00133779.

XX PR 20-DEC-1999; 99US-0172768P.

XX PR 20-DEC-2000; 2000US-00747391.

XX PA (STEM-) STEM-CYTE INC.

XX Chow R, Tonai R;

XX WPI; 2003-874916/81.

XX Identifying class I or II Human Leukocyte Antigen genotypes using
 XX hybridization and amplification assays.

XX Claim 7; SEQ ID NO 119; 66pp; English.

XX The invention relates to a method of identifying a class I or II Human
 CC Leukocyte Antigen (HLA) genotype of a subject using hybridisation and
 CC amplification assay. The method is used for determining the HLA genotype
 CC of a subject. The present sequence represents a HLA class I allele
 CC specific primer.

XX Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GAGTGAACCTGCGG 20
 ||||| ||||| |||||

DB 3 GAGTGAACCTGCGG 16

RESULT 734

AAQ22903
 ID AAQ22903 standard; DNA; 17 BP.

XX AC AAQ22903;

XX DT 25-MAR-2003 (revised)

XX DT 07-JUL-1992 (first entry)

XX HCV-Hc59 primer #795 (sense strand).

XX Hepatitis C virus; non-A non-B virus; HCV-Hc59; primers; probes; vaccine;
 XX ss.

XX Synthetic.

XX WO9203458-A.

XX PD 05-MAR-1992.

XX PF 23-AUG-1991; 91WO-US006037.

XX PR 25-AUG-1990; 90US-00573643.

XX PR 21-NOV-1990; 90US-00616369.

XX PR 21-AUG-1991; 91US-00748564.

XX (NYBL-) NEW YORK BLOO DCENT.

PA (PHAR-) PHARMA.
XX Zebedee S, Inchauspe G, Nasofe MS, Prince AM;
XX WPI; 1992-096821/12.
DR Deoxyribonucleic acid sequence encoding non-A, non-B hepatitis virus -
PT obtd. Huch C59 subgroup encoding polypeptide(s), useful as vaccines, and
PT immuno reactive Abs for diagnosis of virus.
XX Disclosure; Page 107; 225pp; English.
XX One Huch strain (HCV-H) of NANBV, designated the Huch c59 isolate (HCV-
CC Hc59) was propagated through passage in animals and the entire viral
CC genome was cloned and sequenced. Five microg of purified liver or plasma
CC derived from HCV RNA was used per cDNA priming reaction. Specific
CC nucleotide primers derived from published HCV sequences and spanning the
CC entire reported genomic sequences were used to prime the reaction.
CC Selected target sequences were amplified using a PCR-based approach using
CC a variety of nucleotide primers. The nucleotide sequences of the primers
CC are given in AAQ22872-936 and AAQ24472. Amplified sequences were
CC subsequently isolated, rendered blunt-ended and inserted into a pUC or
CC pBluescript cloning vectors. (Updated on 25-MAR-2003 to correct PR
CC field.) (Updated on 25-MAR-2003 to correct PA field.)
XX Sequence 17 BP; 1 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
SQ Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 250 CGGGCTCGCGCGCTG 266
DB 1 CGGGCTCGCGCTG 17
RESULT 735
AAQ2383/C
ID AAQ2383 standard; DNA; 17 BP.
XX AC AAQ2383;
XX 15-JAN-1996 (first entry)
XX Human mismatch repair pathway gene MSH2, primer 17209.
XX Mismatch repair; MSH2; primer; identification; defect; alteration;
XX cancer; tumour; vaccine; ss.
XX Homo sapiens.
XX WO9514085-A2.
XX 26-MAY-1995.
XX 17-NOV-1994; 94WO-US013385.
XX 17-NOV-1993; 93US-00154792.
XX 07-DEC-1993; 93US-00163449.
XX 13-JUN-1994; 94US-00253310.
XX (DAND) DANA FARBER CANCER INST.
XX (UYVE-) UNIV VERMONT & STATE AGRIC COLLEGS.
XX Kolodner RD, Fishel R, Reenan RA;
XX WPI; 1995-200377/26.
XX Determining alteration in human mismatch repair pathways - used in the
XX diagnosis, prognosis and therapy of cancers and in screening assays.
XX Claim 15; Page 186; 256pp; English.

CC AAQ92382-Q92400 and AAQ93890-Q93900 are oligonucleotide primers used to
CC detect alterations in the human mismatch repair pathway gene MSH2.
CC Defects or alterations in such a gene result in the accumulation of
CC unstable repeated DNA sequences, a feature of a number of different
CC cancers. The identification of a defect in the mismatch repair pathway
CC can be diagnostic of a predisposition to cancer and prognostic for a
CC particular mammalian cancer e.g colorectal, ovarian, endometrial
CC (uterine), renal, bladder, skin, rectal and bowel. The nucleotide
CC sequences and polypeptides of the hMSH2 gene may also be used for therapy
CC and in vaccines
XX Sequence 17 BP; 2 A; 10 C; 3 G; 2 T; 0 U; 0 Other;
SQ Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 319 GCGTCTCGCGCGGAC 335
DB 17 GCGTCTCGCGGAGGAC 1
RESULT 736
AAQ74482
ID AAQ74482 standard; RNA; 17 BP.
XX AC AAQ74482;
XX 28-JUL-1999 (first entry)
XX Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #10.
XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
XX KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
XX tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
XX fms-like tyrosine kinase 1; kinase insert domain containing receptor;
XX foetal liver kinase 1; ss.
XX Mus sp.
XX WO9715662-A2.
XX 01-MAY-1997.
XX 25-OCT-1996; 96WO-US017480.
XX 26-OCT-1995; 95US-0005974P.
XX 11-JAN-1996; 96US-00584040.
XX (RIBO-) RIBOZYME PHARM INC.
XX (CHIR) CHIRON CORP.
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
XX WPI; 1997-259017/23.
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
XX stability - useful for treating e.g. tumour angiogenesis, psoriasis,
XX rheumatoid arthritis, etc., in a human patient.
XX Claim 4; Page 155; 218pp; English.
XX The present invention describes nucleic acid molecules which modulate the
XX synthesis, expression and/or stability of a mRNA encoding 1 or more
XX receptors of vascular endothelial growth factor (VEGF). A patient
XX (preferably human) having a condition associated with the level of the
XX fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
XX receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
XX angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
XX treated by administering the nucleic acid molecule or the expression
XX vector to the patient. AAQ67275 to AAQ75752 represent specific examples
XX of nucleic acid molecules from the present invention

AC	AAV97774;	
XX		
DT	17-MAR-1999 (first entry)	
XX		
DE	Human EGF-R target sequence nucleotide position 4357.	
XX		
KW	Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;	
KW	hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;	
KW	cancer; genetic drift; detection; mutation; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	W09833893-A2.	
XX		
PD	06-AUG-1998.	
XX		
PF	14-JAN-1998; 98WO-US000730.	
XX		
PR	31-JAN-1997; 97US-00364762.	
XX		
PR	04-DEC-1997; 97US-00985162.	
XX		
PA	(RIBO-) RIBOZYME PHARM INC.	
PA	(UYAS-) UNIV ASTON.	
PI	Akhtar S, Fell P, Mcswiggen JA;	
XX		
DR	WPI; 1998-437449/37.	
XX		
PT	Enzymatic nucleic acids - which cleave RNA derived from an epidermal	
PT	growth factor receptor, useful for inhibiting cell proliferation and for	
PT	treating cancers.	
XX		
PS	Claim 5; Page 79; 109pp; English.	
XX		
CC	The present invention describes enzymatic nucleic acid molecules (NAMS)	
CC	which specifically cleave RNA derived from an epidermal growth factor	
CC	receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090	
CC	represent specifically claimed target sequence from human EGF-R. AAV98043	
CC	to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and	
CC	hairpin ribozymes respectively for human EGF-R. The NAMS are useful for	
CC	cleaving EGF-R RNA in the treatment of a condition associated with EGFR	
CC	expression levels e.g. to inhibit cell proliferation in the prevention or	
CC	treatment of cancers. The NAMS can also be used as diagnostic tools to	
CC	examine genetic drift and mutations within diseased cells or to detect	
CC	the presence of EGF-R RNA in a cell	
XX		
SQ	Sequence 17 BP; 3 A; 7 C; 4 G; 0 T; 3 U; 0 Other;	
	Query Match 2.9%; Score 12.2; DB 1; Length 17;	
	Best Local Similarity 82.4%; Pred. No. 4.2e+02;	
	Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	
Qy	390 GGGCCCAAGAGGCTTT 406	
Db	17 GGGCCCATGAAGCCCTT 1	
RESULT 739		
AAV97773/C		
ID	AAV97773 standard; RNA; 17 BP.	
XX		
AC	AAV97773;	
XX		
DT	17-MAR-1999 (first entry)	
XX		
DE	Human EGF-R target sequence nucleotide position 4356.	
XX		
KW	Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;	
KW	hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;	
KW	cancer; genetic drift; detection; mutation; ss.	
XX		
OS	Homo sapiens.	
XX		

PN WO9833893-A2.
XX
PD 06-AUG-1998.
XX
PF 14-JAN-1998; 98WO-US000730.
XX
PR 31-JAN-1997; 97US-0036476P.
PR 04-DEC-1997; 97US-0098516Z.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (UYAS-) UNIV ASTON.
XX
PI Akhtar S, Fell P, Mcswiggen JA;
XX
XX WPI, 1998-437449/37.
XX
XX Enzymatic nucleic acids - which cleave RNA derived from an epidermal
PT growth factor receptor, useful for inhibiting cell proliferation and for
PT treating cancers.
XX
XX Claim 5; Page 79; 109pp; English.
XX
XX The present invention describes enzymatic nucleic acid molecules (NAMS)
CC which specifically cleave RNA derived from an epidermal growth factor
CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090
CC represent specifically claimed target sequence from human EGF-R. AAV98044
CC to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and
CC hairpin ribozymes respectively for human EGF-R. The NAMS are useful for
CC cleaving EGF-R RNA in the treatment of a condition associated with EGF-R
CC expression levels e.g. to inhibit cell proliferation in the prevention or
CC treatment of cancers. The NAMS can also be used as diagnostic tools to
CC examine genetic drift and mutations within diseased cells or to detect
CC the presence of EGF-R RNA in a cell
XX
XX Sequence 17 BP; 3 A; 6 C; 5 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
QY 391 GGGCCATGAGGCTTC 407
DB 17 GGGCCATGAGGCTTC 1
XX
RESULT 740
AAV48482/C
ID AAV48482 standard; DNA; 17 BP.
XX
XX AAV48482;
XX
XX 15-OCT-1998 (first entry)
XX
XX TGF-beta-1 antisense oligonucleotide TGF-beta1-31.
XX
XX Transforming growth factor beta-1; TGF beta-1; antisense oligonucleotide;
XX modulate; gene expression; ss.
XX
XX Synthetic.
XX Homo sapiens.
XX
XX EP856579-A1.
XX
XX 05-AUG-1998.
XX
XX 31-JAN-1997; 97EP-00101531.
XX
XX 31-JAN-1997; 97EP-00101531.
XX
XX (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX
XX Schlingensiepen K, Brysch W;
XX

DR WPI; 1998-400910/35.
XX
XX Preparation of antisense oligonucleotide(s) which lack long runs of
PT consecutive guanosine or inosine - and have specific ratio of residues
PT able to form two or three hydrogen bonds, have greater activity and
PT reduced toxicity, used therapeutically or to modulate growth of cells in
PT culture.
XX
XX Claim 10; Fig 3b; 286pp; English.
XX
XX AAV48412-84 represent antisense oligonucleotides directed against
CC transforming growth factor beta-1 (TGF beta-1). The oligonucleotides
CC exemplify the invention. The specification describes oligonucleotides
CC that contain 8-30 nucleotides, which contain at most 8 nucleotides that
CC can each form three hydrogen bonds to cytosine; do not contain four
CC consecutive nucleotides able to form three H-bonds each to four
CC consecutive cytosines; do not contain two sequences of three consecutive
CC nucleotides each able to form three H-bonds to three consecutive
CC cytosines, and the ratio between residues able to form two H-bonds each
CC (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
CC oligonucleotides are used to modulate expression of genes, particularly
CC the genes for p53, ErbB-2, junB, jund, TGF-beta 1 or beta 2 to control
CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or
CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
CC oligonucleotides can also be used to analyse function of proteins (by
CC altering their expression or activity) and therapeutically, e.g. in cases
XX of cancer or (targeting TGF) for stimulating the immune system
XX
XX Sequence 17 BP; 6 A; 3 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
QY 350 GCTCTACAGCGACTTC 366
DB 17 GCTCTACATGACTTC 1
XX
RESULT 741
AAV06941
ID AAV06941 standard; DNA; 17 BP.
XX
XX AAV06941;
XX
XX 10-MAY-1999 (first entry)
XX
XX Canine factor VIII gene fragment PCR primer CS-nt-UTR-U.
XX
XX Factor VIII; canine; dog; diagnosis; animal model; haemophilia A;
XX gene therapy; PCR; primer; ss.
XX
XX Synthetic.
XX Canis familiaris.
XX
XX CA2225189-A.
XX
XX 06-SEP-1998.
XX
XX 06-MAR-1998; 98CA-02225189.
XX
XX 06-MAR-1997; 97US-0039953P.
XX
XX 05-MAR-1998; 98US-00035141.
XX
XX (TOOH) UNIV QUEENS KINGSTON.
XX
XX Lillcrap D, Cameron C, Notley C, Horrocks L, Hough C;
XX
XX WPI; 1999-071205/07.
XX
XX New canine factor VIII polynucleotide and polypeptide - useful for
PT detection and treatment of haemophilia A using gene therapy.
PT
XX

PS Example 2; Page 57; 153pp; English.

XX This is the nucleotide sequence of canine factor VIII gene fragment 6A-3

CC first round PCR primer CS-att-UTR-U, where CS indicates canine-specific,

CC and U refers to the amplification region being upstream of the primer.

CC The canine factor VIII gene nucleotide sequence (see AAV99801) was

CC obtained by concatenation of RT-PCR-amplified factor VIII fragments

CC obtained from canine liver total RNA (see AAX06886-918), and the sequence

CC was confirmed by RT-PCR (see AAX06919-41). The invention also provides

CC canine factor VIII polypeptides (see AAW80989) and methods for the

CC detection and treatment of canine disorders characterised by factor VIII

CC deficiency, especially haemophilia A

XX

SQ Sequence 17 BP; 2 A; 7 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 214 AGAATCGTGCGGCC 230

DB 1 AGACCTCGTGCGGCC 17

AC AAV91040;

XX

XX AAV91040;

XX

XX 18-FEB-1999 (first entry)

XX Human C-raf target site nucleotide position 747.

XX

XX Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;

KW target; substrate; catalyst; modulation; expression; Raf gene; delivery;

KW screening; identification; synthesis; deprotection; purification; cancer;

KW inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;

KW restenosis; rheumatoid arthritis; ss.

XX

OS Homo sapiens.

XX

XX WO9850530-A2.

XX

XX 12-NOV-1998.

XX

XX 05-MAY-1998; 98WO-US009249.

XX

XX 09-MAY-1997; 97US-0046059P.

XX 09-JUN-1997; 97US-0049002P.

XX 03-JUL-1997; 97US-0051718P.

XX 22-AUG-1997; 97US-0056808P.

XX 02-OCT-1997; 97US-0061321P.

XX 05-NOV-1997; 97US-0064866P.

XX 19-DEC-1997; 97US-0068212P.

XX (RIBO-) RIBOZYME PHARM INC.

XX

XX Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K, Bellon L;

PI Parry T, Beigelman L, Moswiggen JA, Karpeisky A, Burgin A;

PI Thompson J, Workman CT, Beaudry A, Sweedler D;

XX

XX WPI; 1999-009494/01.

XX

XX Identifying new catalytic nucleic acid that modulates selected processes

PT - especially ribozymes that cleave Raf RNA for treating cancer,

PT restenosis, and also new ribozymes and modified nucleoside triphosphates

PT used as antiviral agents and synthons.

XX

XX Claim 177; Page 148; 259pp; English.

XX

XX A method has been developed for the identification of a nucleic acid

CC

CC capable of modulating a process in a biological system. The method

CC comprises: (a) introducing into the system a random library of nucleic

CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising

CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC

CC in systems where modulation has occurred and/or determining the sequence

CC of at least part of the SBDs in such systems. Nucleic acid molecules with

CC endonuclease activity and catalytic activity, from the present invention, and to

CC are used to modulate gene expression in plant and mammalian cells and to

CC cleave target nucleic acid, particularly for treating systemic diseases

CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic

CC ascites and infection. They may also be used to detect genetic drift and

CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs

CC with RNA-cleaving activity that modulate expression of the Raf gene, are

CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or

CC generally any condition associated with the level of c-raf. Introduction

CC of sugar/phosphate modifications increases stability against nuclease and

CC activity. AAV90922 to AAV93877 represent NACs that can be used in the

CC method, specifically for modulating the expression of a Raf gene

XX

SQ Sequence 17 BP; 4 A; 5 C; 5 G; 0 T; 3 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 70.6%; Pred. No. 4.2e+02;

Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 56 AGAGGAGTCTCTGCACT 72

DB 1 AGUGGAGUCCAGCACU 17

AC AAV92615;

XX

XX AAV92615;

XX

XX 18-FEB-1999 (first entry)

XX Human A-Raf substrate position 2094.

XX

XX Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;

KW target; substrate; catalyst; modulation; expression; Raf gene; delivery;

KW screening; identification; synthesis; deprotection; purification; cancer;

KW inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;

KW restenosis; rheumatoid arthritis; ss.

XX

OS Homo sapiens.

XX

XX WO9850530-A2.

XX

XX 12-NOV-1998.

XX

XX 05-MAY-1998; 98WO-US009249.

XX

XX 09-MAY-1997; 97US-0046059P.

XX 09-JUN-1997; 97US-0049002P.

XX 03-JUL-1997; 97US-0051718P.

XX 22-AUG-1997; 97US-0056808P.

XX 02-OCT-1997; 97US-0061321P.

XX 05-NOV-1997; 97US-0064866P.

XX 19-DEC-1997; 97US-0068212P.

XX (RIBO-) RIBOZYME PHARM INC.

XX

XX Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K, Bellon L;

PI Parry T, Beigelman L, Moswiggen JA, Karpeisky A, Burgin A;

PI Thompson J, Workman CT, Beaudry A, Sweedler D;

XX

XX WPI; 1999-009494/01.

XX

XX Identifying new catalytic nucleic acid that modulates selected processes

PT - especially ribozymes that cleave Raf RNA for treating cancer,

PT restenosis, and also new ribozymes and modified nucleoside triphosphates

PT used as antiviral agents and synthons.

XX

XX Claim 177; Page 148; 259pp; English.

XX

XX A method has been developed for the identification of a nucleic acid

CC

PT reestrosis, and also new ribozymes and modified nucleoside triphosphates
PT used as antiviral agents and synthons.

PS Claim 177; Page 161; 259pp; English.

XX A method has been developed for the identification of a nucleic acid
CC capable of modulating a process in a biological system. The method
CC comprises: (a) introducing into the system a random library of nucleic
CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising
CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC
CC in systems where modulation has occurred and/or determining the sequence
CC of at least part of the SBDs in such systems. Nucleic acid molecules with
CC endonuclease activity and catalytic activity, from the present invention,
CC are used to modulate gene expression in plant and mammalian cells and to
CC cleave target nucleic acid, particularly for treating systemic diseases
CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic
CC ascites and infection. They may also be used to detect genetic drift and
CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs
CC with RNA-cleaving activity that modulate expression of the Raf gene, are
CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or
CC generally any condition associated with the level of c-raf. Introduction
CC of sugar/phosphate modifications increases stability against nuclease and
CC activity. AAV90922 to AAV93877 represent NACs that can be used in the
CC method, specifically for modulating the expression of a Raf gene
XX

SQ Sequence 17 BP; 1 A; 6 C; 3 G; 0 T; 7 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 28 AGGGCTGGGACGAAGAT 44
||| | | | | | | | | |
DB 17 AGGGCAGACGACGAACAT 1

RESULT 744
AAAX54277/C
ID AAX54277 standard; DNA; 17 BP.

AC AAX54277;
DT 05-JUL-1999 (first entry)

DE Endothelial nitric oxide synthase antisense oligonucleotide.

XX Antisense oligonucleotide; multiple target; antisense treatment;
KW impaired respiration; inflammation; lung disease;
KW pulmonary vasoconstriction; inflammation; allergic rhinitis;
KW acute asthma; allergy; asthma; impeded respiration;
KW respiratory distress syndrome; pain; cystic fibrosis;
KW pulmonary hypertension; pulmonary vasoconstriction; emphysema;
KW chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;
KW colon cancer; breast cancer; lung cancer; pancreatic cancer;
KW hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
KW prostate cancer; ss.

OS Synthetic.
XX WO9913886-A1.

FN 25-MAR-1999.

XX 17-SEP-1998; 98WO-US019419.

XX 17-SEP-1997; 97US-0059160P.

PR 09-JUN-1998; 98US-00093972.

XX (UYEC-) UNIV EAST CAROLINA.

XX Nyce JW;

PI WPI; 1999-229400/19.

DR

XX New antisense oligonucleotides used in treatment of, e.g. pulmonary
PT vasoconstriction.

PS Disclosure; Page 61; 120pp; English.

XX The specification describes antisense oligonucleotides (AAX52869-X5271)
CC directed against at least 2 mRNAs selected from target genes, coding and
CC non-coding regions of RNAs corresponding to target genes, gene initiation
CC codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-
CC end and the juxta-section between coding and non-coding regions and all
CC segments of RNAs encoding proteins associated with one or more diseases,
CC conditions or mixtures. The antisense oligonucleotides may be derived
CC from sequences AAX55180-271. These multiple target oligonucleotides
CC (specifically AAX55180-271) can be used for the antisense treatment of
CC diseases and conditions. Typical diseases and conditions are those
CC associated with impaired respiration and inflammation, including lung
CC diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis,
CC acute asthma, allergies, asthma, impeded respiration, respiratory
CC distress syndrome, pain, cystic fibrosis, chronic obstructive pulmonary
CC disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g.
CC colon cancer, breast cancer, lung cancer, pancreatic cancer,
CC hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as
CC well as all types of cancers which may metastasize or have metastasized
CC to the lungs, including breast and prostate cancer
XX

SQ Sequence 17 BP; 0 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 268 ACCTGGAGCAGCGCGC 284
||| | | | | | | | | |
DB 17 ACCGGCAGCAGCAGCGC 1

RESULT 745
AAX29695/C
ID AAX29695 standard; DNA; 17 BP.

AC AAX29695;
DT 04-JUN-1999 (first entry)

DE Human bone morphogenic protein (BMP)-2 forward primer.

XX BMP; BMP-2; bone morphogenetic protein; tissue regeneration; skin; bone;
KW cartilage; tendon; ligament; muscle; connective tissue; nerve; cardiac;
KW liver; lung; kidney; pancreas; brain; embryonic development;
KW growth factor; osteoporosis; osteoarthritis; fracture; PCR primer; ss.

OS Homo sapiens.
XX WO9911664-A1.

FN 11-MAR-1999.

XX 04-SEP-1998; 98WO-US018603.

XX 05-SEP-1997; 97US-0057989P.

PR 04-SEP-1998; 98US-00148234.

XX (GEMY) GENETICS INST INC.

PA (YISS) YISSUM RES & DEV CO.

PI Moutsatsos I, Gazit D, Zilberman Y, Turgeman G;

XX WPI; 1999-214697/18.

XX Production of cells for implantation at the site of bone infirmity in a
PT human, using DNA encoding a bone morphogenetic protein - useful for

PT treating osteoporosis, osteoarthritis and non-union fractures.
 XX
 PS Example 14; Page 43; 71pp; English.
 CC The invention relates to the production of oils for implantation at the
 CC site of a bone infirmity in a human, that comprises transforming and
 CC culturing a host containing DNA encoding a bone morphogenetic protein
 CC (BMP). The method is useful for regenerating various tissues, including
 CC bone, cartilage, tendon, ligament, muscle, skin (and other connective
 CC tissues), nerve, cardiac, liver, lung, kidney, pancreas, and brain. The
 CC method is also useful for inducing and/or regeneration of tissue,
 CC including the induction of epidermal, endodermal and mesodermal tissue
 CC during embryonic development. The growth factors produced by the method
 CC are useful for treating osteoporosis and osteoarthritis, non-union
 CC fractures. The method provides cells, which are potentially responsive to
 CC BMPs that can be used for growth factor delivery to signalling receptors
 CC of transplanted cells (autocrine effect) and host progenitor stem cells
 CC (paracrine effect) for the engraftment, differentiation, and stimulation
 CC of new bone growth. Therefore, the method provides an effective therapy
 CC for non-union fractures. Sequences AAX29695-696 represent primers for BMP
 CC -2
 XX
 SQ Sequence 17 BP; 3 A; 9 C; 2 G; 3 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 23 GACCGAGGCTGGGACG 39
 DB 17 GTCAGAGGCTGGGATG 1
 RESULT 746
 ID AAA33721/c
 XX ID AAA33721 standard; DNA; 17 BP.
 AC AAA33721;
 XX
 XX 28-JUL-2000 (first entry)
 DE Low adenosine antisense oligonucleotide SEQ ID NO:1410.
 XX
 XX Human; adenosine receptor; low adenosine antisense oligonucleotide;
 KW phosphothioate; impaired respiration; inflammation; allergy;
 KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
 KW antiallergic; antiasthmatic; cycostatic; analgesic; impaired airway;
 KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
 KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;
 KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
 KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200009525-A2.
 PN
 XX
 XX 24-FEB-2000.
 PD
 XX
 PF 03-AUG-1999; 99WO-US017712.
 XX
 PR 03-AUG-1998; 98US-0095212P.
 XX
 XX (UYEC-) UNIV EAST CAROLINA.
 PA
 XX
 XX Nyce JW;
 PI
 XX WPI; 2000-205971/18.
 DR
 XX
 XX New antisense oligonucleotides useful for treating e.g. pulmonary
 PT vasoconstriction, inflammation, allergies, asthma, hypertension,
 PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
 PT cancers.
 XX

PS Claim 18; Page 441; 1343pp; English.
 XX
 CC The present invention describes a new composition comprising an antisense
 CC oligonucleotide (ON) with low adenosine (up to 15%), which targets
 CC nucleic acids involved in bronchoconstriction, allergies, and/or
 CC inflammation. The ON can have antiinflammatory, antiallergic,
 CC antiasthmatic, cycostatic and analgesic activities. The compositions are
 CC useful for the treatment of diseases associated with inflammation,
 CC impaired airways, including lung disease and diseases whose secondary
 CC effects afflict the lungs of a subject. They can be used for treating
 CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma,
 CC impaired respiration, respiratory distress syndrome, pain, cystic
 CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive
 CC pulmonary disease (COPD), and cancers such as leukemias, lymphomas,
 CC carcinomas, and cancers which may metastasize to the lungs, including
 CC breast and prostate cancer. The reduction of the adenosine content of the
 CC ONs reduces side effects. The A-containing ONs break down with the
 CC release of deoxyadenosine which activates adenosine receptors causing
 CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the
 CC nucleotide sequences given in the sequence listing from the present
 CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185
 CC sequences are also called SEQ ID NO:1 to 185, but the sequences differ
 CC from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to
 CC AAA33992) are specifically claimed ONs from the present invention. N.B.
 CC Sequences given in the disclosure of the present invention do not match
 CC up with their corresponding SEQ ID NO: sequences given in the sequence
 CC listing
 XX
 SQ Sequence 17 BP; 0 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 268 ACCTGAGCAGCGCGCGC 284
 DB 17 ACCGGCAGCAGCGCGC 1
 RESULT 747
 ID AAA91985
 XX ID AAA91985 standard; DNA; 17 BP.
 AC AAA91985;
 XX
 XX 10-JAN-2001 (first entry)
 DT
 DE Nested PCR primer 1184F for S. neuropa small ribosomal subunit gene.
 KW Small ribosomal subunit; SRSU; Equine protozoal myeloencephalitis; EPM;
 KW diagnosis; nested PCR primer; ss.
 XX
 OS Sarcocystis neuropa.
 XX
 XX US6110665-A.
 PN
 XX
 XX 29-AUG-2000.
 PD
 XX
 PF 14-FEB-1995; 95US-00388029.
 XX
 PR 14-FEB-1995; 95US-00388029.
 XX
 XX (KENT) UNIV KENTUCKY RES FOUND.
 PA
 XX
 XX Fenger CK, Gajadhar AA, Dubey JP, Granstrom DE;
 PI
 XX WPI; 2000-586347/55.
 DR
 XX
 XX Sarcocystis neuropa diagnostic primer, useful for in vitro diagnostic
 PT testing for Equine protozoal myeloencephalitis, i.e. for diagnosing the
 PT presence of S. neuropa in equine blood or cerebrospinal fluid.
 XX
 XX Example 3; Col 7; 41pp; English.
 PS

```

XX The present invention relates to a diagnostic primer from positions 1470-
CC 1487 of the small ribosomal subunit of Sarcocystis neurona. This primer
CC is unique to the S. neurona species. The primer is useful for diagnostic
CC tests for Equine protozoal myeloencephalitis (EPM) where the presence of
CC S. neurona is indicative of EPM. The present sequence is a nested PCR
CC primer used in the diagnostic assay to identify S. neurona
XX
SQ Sequence 17 BP; 2 A; 5 C; 8 G; 2 T; 0 U; 0 Other;
Query Match          2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 3 CCAGAGTGAACATGCG 19
    ||||| ||||| |||||
Db 1 CCAGCGTGGAGCTGCG 17
    ||||| ||||| |||||

RESULT 748
RAZ56635
ID AA256635 standard; DNA; 17 BP.
XX
AC AA256635;
XX
XX
DT 21-MAR-2000 (first entry)
XX
DE Canine Factor VIII isolation and cloning PCR primer SEQ ID NO:61.
XX
XX Canine; factor VIII; haemostatic; diagnosis; haemophilia A; dog;
KW PCR primer; ss.
XX
OS Canis sp.
XX
XX CA2264431-A1.
XX
PD 05-SEP-1999.
XX
PF 05-MAR-1999; 98CA-02264431.
XX
PR 05-MAR-1998; 98US-00035141.
XX
PR 06-MAR-1998; 98CA-02225189.
XX
XX (TOOH ) UNIV QUEENS KINGSTON.
XX
XX Horrocks LSH, Hough C, Notley C, Lillicrap D, Cameron C;
PI WPI; 2000-073270/07.
XX
DR Isolated nucleic acid encoding a canine factor VIII polypeptide for
PT treating a disorder characterized by canine factor VIII deficiency, such
PT as hemophilia A.
XX
PS Example 2; Page 58; 152pp; English.
XX
XX The present invention describes canine factor VIII. The isolated factor
CC VIII nucleic acid molecule and protein can be used for treating a
CC disorder characterised by canine factor VIII deficiency in a canine,
CC especially haemophilia A. AA256579 to AA256635 represent primers used in
CC the isolation and cloning of canine factor VIII
XX
SQ Sequence 17 BP; 2 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
Query Match          2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 214 AGAAGCTCGTGGCGGCC 230
    ||||| ||||| |||||
Db 1 AGACCTCGTGTGCGGCC 17
    ||||| ||||| |||||

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RESULT 749

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AAF19843/c
ID AAF19843 standard; DNA; 17 BP.
XX
AC AAF19843;
XX
DT 14-MAR-2001 (first entry)
XX
DE Human endothelial nitric oxide synthase polynucleotide fragment #1410.
XX
XX Low adenosine antisense oligonucleotide; phosphorothioate; allergy;
KW human; airway disorder; bronchoconstriction; lung inflammation;
KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;
KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
KW respiratory obstruction; pulmonary obstruction; impeded respiration;
KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;
KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
KW pulmonary hypertension; emphysema; pulmonary transplantation rejection;
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
KW cancer; ss.
XX
XX Homo sapiens.
XX
XX WO2000062736-A2.
XX
PD 26-OCT-2000.
XX
XX 24-MAR-2000; 2000WO-US008020.
XX
XX 06-APR-1999; 99US-0127958P.
XX
XX (UYEC-) UNIV EAST CAROLINA.
XX
XX (NYCE/) NYCE J W.
XX
XX Nyce JW;
XX
XX WPI; 2000-679539/66.
XX
XX Low adenosine (A) content antisense oligonucleotides which do not trigger
PT adenosine receptors during metabolism, useful e.g. for treating cancers
PT and respiratory obstructions.
XX
XX Claim 14; Page 251; 1592pp; English.
XX
XX The present invention describes low adenosine (A) content antisense
CC oligonucleotides and compositions (I) comprising them. In the antisense
CC oligonucleotides the A is replaced by a 'Universal' or alternative base.
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.
CC The antisense oligonucleotides and (I) can be used to down-regulate the
CC expression and/or activity of target polypeptides associated with
CC lung/respiratory disorders and malignancies, such as stimulating and
CC activating peptide factors and transmitters, transcription factors,
CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central
CC nervous system (CNS) and peripheral nervous and non-nervous system
CC receptors, CNS and peripheral nervous and non-nervous system peptide
CC transmitters, defensins, growth factors, vasoactive peptides and
CC receptors, binding proteins and malignancy associated proteins. The
CC antisense oligonucleotides may be used in this way to treat disorders
CC including respiratory obstruction (especially pulmonary obstruction
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or
CC surfactant hypoproduction which are associated with a disease or
CC condition selected from pulmonary vasoconstriction, inflammation,
CC allergies, asthma, impeded respiration, respiratory distress syndrome
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
CC and/or cancer. AAF18434 to AAF1543 represent human polynucleotide
CC fragments and antisense oligonucleotides used in the exemplification of
CC the present invention
XX

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PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX WPI; 2000-647423/62.
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
PT interferon alpha and erythropoietin.
XX
XX Claim 54; Page 136; 164pp; English.
XX
XX The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX
XX Sequence 17 BP; 2 A; 6 C; 4 G; 5 T; 0 U; 0 Other;
SQ Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 167 GGTGTACTACGAGTCCA 183
DB 1 GGTGTCTACCCGTCCTCA 17
RESULT 753
AAFO5334
ID AAF05334 standard; DNA; 17 BP.
XX
XX AAF05334;
AC
XX
XX 16-FEB-2001 (first entry)
DT
DE Hammerhead ribozyme substrate #2553.
XX
XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
XX Homo sapiens.
OS
XX WO2000061729-A2.
PN
XX 19-OCT-2000.
PD
XX
XX 11-APR-2000; 2000WO-US009721.
PF
XX
XX 12-APR-1999; 99US-0129390P.
PR
XX (RIBO-) RIBOZYME PHARM INC.
PA
PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX
XX WPI; 2000-647423/62.
DR
XX
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
PT interferon alpha and erythropoietin.
XX
XX Claim 18; Page 114; 164pp; English.
XX
XX The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha

XX
XX Sequence 17 BP; 1 A; 7 C; 4 G; 5 T; 0 U; 0 Other;
SQ Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 348 CTGCTCTACAGCGACTT 364
DB 1 CTGCTCTTCAGCGCGT 17
RESULT 754
ABK01641/C
ID ABK01641 standard; RNA; 17 BP.
XX
XX ABK01641;
AC
XX 12-MAR-2002 (first entry)
DT
XX
XX Human NOGO G-Cleaver #97.
DE
XX
XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
KW DNazyme; inozyme; G-cleaver; amberyze; zinzyme; lymphoma; leukaemia;
KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
KW inflammatory arthropathy; central nervous system injury;
KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
KW Parkinson's disease; ataxia; Huntington's disease;
KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
XX
XX Homo sapiens.
OS
XX Synthetic.
XX
XX WO200159103-A2.
PN
XX
XX 16-AUG-2001.
PD
XX
XX 09-FEB-2001; 2001WO-US004273.
PF
XX
XX 11-FEB-2000; 2000US-0181797P.
PR
XX 28-FEB-2000; 2000US-0185516P.
PR
XX 06-MAR-2000; 2000US-0187128P.
PR
XX (RIBO-) RIBOZYME PHARM INC.
PA
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J.
PA (CHOW/) CHOWRIRA B M.
XX
XX Blatt L, Mcswiggen J, Chowrira BM;
PI
XX WPI; 2001-607195/69.
DR
XX
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
PT constructs, which down regulate expression of a CD20 gene or neurite
PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
PT central nervous system injury.
XX
XX Claim 88; Page 93; 200pp; English.
XX
XX The invention relates to a nucleic acid molecule which down regulates
CC expression of a CD20 gene and a nucleic acid molecule which down
CC regulates expression of a neurite growth inhibitor gene (NOGO). The
CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule
CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or
CC an amberyze (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA
CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA
CC of CD20 in the presence of a divalent cation that is preferably Mg²⁺.

CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
 CC the cell and treat a patient having a condition associated with the level
 CC of CD20. The treatment may further comprise the use of one or more
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
 CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the
 CC presence of a divalent cation that is preferably Mg²⁺. Furthermore, the
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the
 CC cell and treat a patient having a condition associated with the level of
 CC NOGO. The treatment may further comprise the use of one or more
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to
 CC treat central nervous system (CNS) injury and cerebrovascular accident
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
 CC disease, muscular dystrophy, and/or other neurodegenerative disease
 CC states which respond to the modulation of NOGO expression. The present
 CC sequence is a G-cleaver molecule of the invention
 CC
 CC Sequence 17 BP; 5 A; 2 C; 7 G; 0 T; 3 U; 0 Other;
 CC

Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 360 GACTTCCTCAGTTCCT 376

DB 17 GACTTCCTCAGTCACT 1

RESULT 755

ABK02370

ID ABK02370 standard; RNA; 17 BP.

XX AC ABK02370;

XX DT 12-MAR-2002 (first entry)

XX DE Human NOGO Amberzyme #42.

XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
 KW DNazyme; incyzyme; G-cleaver; amberzyme; zinczyme; lymphoma; leukaemia;
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
 KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;
 KW inflammatory arthropathy; central nervous system injury;
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
 KW Parkinson's disease; ataxia; Huntington's disease;
 KW Creutzfeldt-Jacob disease; muscular dystrophy; neurodegenerative disease.

OS Homo sapiens.

OS Synthetic.

XX PN WO200159103-A2.

XX PD 16-AUG-2001.

XX PF 09-FEB-2001; 2001WO-US004273.

XX PR 11-FEB-2000; 2000US-0181797P.

XX PR 28-FEB-2000; 2000US-0185516P.

XX PR 06-MAR-2000; 2000US-0187128P.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PA (BLAT/) BLATT L.

XX PA (MCSW/) MCSWIGGEN J.

(CHOW/) CHOWRIRA B M.

XX PI Blatt L, Mcswiggen J, Chowrira BM;

XX DR WPI; 2001-607195/69.

XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
 PT constructs, which down regulate expression of a CD20 gene or neurite
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
 PT central nervous system injury.

XX Claim 88; Page 131; 200pp; English.

XX The invention relates to a nucleic acid molecule which down regulates
 CC expression of a CD20 gene and a nucleic acid molecule which down
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
 CC DNazyme) an incyzyme (an endolytic nucleic acid cleaving an RNA molecule
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or
 CC an amberzyme (cleaving RNA with an NGN triplet), a zinczyme (cleaving RNA
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA
 CC of CD20 in the presence of a divalent cation that is preferably Mg²⁺.
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
 CC the cell and treat a patient having a condition associated with the level
 CC of CD20. The treatment may further comprise the use of one or more
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
 CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the
 CC presence of a divalent cation that is preferably Mg²⁺. Furthermore, the
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the
 CC cell and treat a patient having a condition associated with the level of
 CC NOGO. The treatment may further comprise the use of one or more
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to
 CC treat central nervous system (CNS) injury and cerebrovascular accident
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
 CC disease, muscular dystrophy, and/or other neurodegenerative disease
 CC states which respond to the modulation of NOGO expression. The present
 CC sequence is an amberzyme molecule of the invention

XX Sequence 17 BP; 7 A; 2 C; 8 G; 0 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 27 GAGGGCTGGGACGAGA 43

DB 1 GAGGACGAGGACGAGA 17

RESULT 756

ABAB1116

ID ABAB1116 standard; DNA; 17 BP.

XX AC ABAB1116;

XX DT 24-JAN-2002 (first entry)

XX UGT1 mutation correcting oligonucleotide SEQ ID NO: 3962.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
 KW haemophilia; alpha thalassemia; haemoglobin alpha locus 1; MLH1; APOE;
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;

KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
 KW Alzheimer's disease; cytosolic; antisickling; antianaemic; haemostatic;
 KW antilipemic; ss.

OS Homo sapiens.

PN WO200173002-A2.

XX 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009761.

XX 27-MAR-2000; 2000US-0192176P.

XX 27-MAR-2000; 2000US-0192179P.

XX 01-JUN-2000; 2000US-0208538P.

XX 30-OCT-2000; 2000US-0244989P.

XX (UYDE) UNIV DELAWARE.

XX Kmiec EB, Gamper HB, Rice MC;

XX WPI; 2001-639230/73.

XX Oligonucleotide for targeted alterations of genetic sequences and for

XX treating cystic fibrosis, comprises at least one mismatch and chemical

XX modification.

XX Claim 7; Page 258; 294pp; English.

XX The present invention provides single-stranded oligonucleotides which can
 CC be used for the targeted alteration of genomic sequences, where the
 CC oligonucleotide has at least one mismatch compared with the genomic
 CC sequence to be altered. In particular, these sequences are directed at
 CC the following genes: adenosine deaminase, p53, beta-globin,
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
 CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
 CC various syndromes. The present sequence is one of the gene correcting
 CC oligonucleotides of the invention

XX Sequence 17 BP; 0 A; 6 C; 6 G; 5 T; 0 U; 0 Other;

XX Query Match 2.9%; Score 12.2; DB 1; Length 17;

XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;

XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 338 CCAGGCGCGCTGCTCT 354

Db 1 CTTGGCGCTGCTGCTGT 17

RESULT 757

ABA77217/c

XX ID ABA77217 standard; DNA; 17 BP.

XX ABA77217;

XX 24-JAN-2002 (first entry)

XX Adenosine deaminase deficiency correcting oligo SEQ ID NO: 63.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
 KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;

KW familial hypercholesterolaemia; UCT1; syndrome; APP; PSEN1; antisense;
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
 KW Alzheimer's disease; cytosolic; antisickling; antianaemic; haemostatic;
 KW antilipemic; ss.

OS Homo sapiens.

PN WO200173002-A2.

XX 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009761.

XX 27-MAR-2000; 2000US-0192176P.

XX 27-MAR-2000; 2000US-0192179P.

XX 01-JUN-2000; 2000US-0208538P.

XX 30-OCT-2000; 2000US-0244989P.

XX (UYDE) UNIV DELAWARE.

XX Kmiec EB, Gamper HB, Rice MC;

XX WPI; 2001-639230/73.

XX Oligonucleotide for targeted alterations of genetic sequences and for

XX treating cystic fibrosis, comprises at least one mismatch and chemical

XX modification.

XX Claim 7; Page 44; 294pp; English.

XX The present invention provides single-stranded oligonucleotides which can
 CC be used for the targeted alteration of genomic sequences, where the
 CC oligonucleotide has at least one mismatch compared with the genomic
 CC sequence to be altered. In particular, these sequences are directed at
 CC the following genes: adenosine deaminase, p53, beta-globin,
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
 CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
 CC various syndromes. The present sequence is one of the gene correcting
 CC oligonucleotides of the invention

XX Sequence 17 BP; 3 A; 4 C; 8 G; 2 T; 0 U; 0 Other;

XX Query Match 2.9%; Score 12.2; DB 1; Length 17;

XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;

XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 89 GGACATCACACCTCTG 105

Db 17 GGGCACACCTCTCTG 1

RESULT 758

ABA80849

XX ID ABA80849 standard; DNA; 17 BP.

XX ABA80849;

XX 24-JAN-2002 (first entry)

XX LDLR mutation correcting oligonucleotide SEQ ID NO: 3695.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
 KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;

KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
 KW Alzheimer's disease; cytoskeletal; antisickling; antianaemic; haemostatic;
 KW antilipemic; ss.

OS Homo sapiens.

XX WO200173002-A2.

XX 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009761.

XX 27-MAR-2000; 2000US-0192176P.

XX 27-MAR-2000; 2000US-0192179P.

XX 01-JUN-2000; 2000US-0208538P.

XX 30-OCT-2000; 2000US-0244989P.

XX (UYDE) UNIV DELAWARE.

XX Kmiec EB, Gamper HB, Rice MC;

XX WPI; 2001-639230/73.

XX Oligonucleotide for targeted alterations of genetic sequences and for
 PT treating cystic fibrosis, comprises at least one mismatch and chemical
 PT modification.

XX Claim 7; Page 245; 294pp; English.

XX The present invention provides single-stranded oligonucleotides which can
 CC be used for the targeted alteration of genomic sequences, where the
 CC oligonucleotide has at least one mismatch compared with the genomic
 CC sequence to be altered. In particular, these sequences are directed at
 CC the following genes: adenosine deaminase, p53, beta-globin,
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH5,
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
 CC (UGT1), amyloid precursor protein (APP), presenilin-1 (PSEN1) and
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
 CC various syndromes. The present sequence is one of the gene correcting
 CC oligonucleotides of the invention

XX SQ Sequence 17 BP; 4 A; 4 C; 9 G; 0 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. NO. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 74 CGAGGCGCGCGAGTGG 90

DB 1 CGAAGCGCGAGCGGG 17

RESULT 759

ABR81117/C

ID ABR81117 standard; DNA; 17 BP.

XX ABR81117;

XX 24-JAN-2002 (first entry)

XX UGT1 mutation correcting oligonucleotide SEQ ID NO: 3963.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;

KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
 KW Alzheimer's disease; cytoskeletal; antisickling; antianaemic; haemostatic;
 KW antilipemic; ss.

OS Homo sapiens.

XX WO200173002-A2.

XX 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009761.

XX 27-MAR-2000; 2000US-0192176P.

XX 27-MAR-2000; 2000US-0192179P.

XX 01-JUN-2000; 2000US-0208538P.

XX 30-OCT-2000; 2000US-0244989P.

XX (UYDE) UNIV DELAWARE.

XX Kmiec EB, Gamper HB, Rice MC;

XX WPI; 2001-639230/73.

XX Oligonucleotide for targeted alterations of genetic sequences and for
 PT treating cystic fibrosis, comprises at least one mismatch and chemical
 PT modification.

XX Claim 7; Page 258; 294pp; English.

XX The present invention provides single-stranded oligonucleotides which can
 CC be used for the targeted alteration of genomic sequences, where the
 CC oligonucleotide has at least one mismatch compared with the genomic
 CC sequence to be altered. In particular, these sequences are directed at
 CC the following genes: adenosine deaminase, p53, beta-globin,
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
 CC (UGT1), amyloid precursor protein (APP), presenilin-1 (PSEN1) and
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
 CC various syndromes. The present sequence is one of the gene correcting
 CC oligonucleotides of the invention

XX SQ Sequence 17 BP; 5 A; 6 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. NO. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 338 CGAGGCGCGCGTCTCT 354

DB 17 CGTGGCGCTGCTGTGT 1

RESULT 760

ABR80848/C

ID ABR80848 standard; DNA; 17 BP.

XX ABR80848;

XX 24-JAN-2002 (first entry)

XX LDLR mutation correcting oligonucleotide SEQ ID NO: 3694.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;

adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
Alzheimer's disease; cytosolic; antiscikling; antianaemic; haemostatic;
antileptic; ss.
Homo sapiens.
WO200173002-A2.
04-OCT-2001.
27-MAR-2001; 2001WO-US009761.
27-MAR-2000; 2000US-0192176P.
27-MAR-2000; 2000US-0192179P.
01-JUN-2000; 2000US-0208538P.
30-OCT-2000; 2000US-0244989P.
(UYDE) UNIV DELAWARE.
Kmtc EB, Gamper HB, Rice MC;
WPI; 2001-639230/73.
Oligonucleotide for targeted alterations of genetic sequences and for
treating cystic fibrosis, comprises at least one mismatch and chemical
modification.
Claim 7; Page 245; 294pp; English.
The present invention provides single-stranded oligonucleotides which can
be used for the targeted alteration of genomic sequences, where the
oligonucleotide has at least one mismatch compared with the genomic
sequence to be altered. In particular, these sequences are directed at
the following genes: adenosine deaminase, p53, beta-globin,
retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
(CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
(UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
such as cancer, adenosine deaminase deficiency, cystic fibrosis,
haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
various syndromes. The present sequence is one of the gene correcting
oligonucleotides of the invention
SQ Sequence 17 BP; 0 A; 9 C; 4 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 74 CGAGGCGCGCGAGTGG 90
Db 17 CGAAGCGCGAGCGGG 1
RESULT 761
ABA77218
ID ABA77218 standard; DNA; 17 BP.
XX
AC ABA77218;
XX
DT 24-JAN-2002 (first entry)
XX
DE Adenosine deaminase deficiency correcting oligo SEQ ID NO: 64.
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
KW Human; retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
KW

cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
Alzheimer's disease; cytosolic; antiscikling; antianaemic; haemostatic;
antileptic; ss.
Homo sapiens.
WO200173002-A2.
04-OCT-2001.
27-MAR-2001; 2001WO-US009761.
27-MAR-2000; 2000US-0192176P.
27-MAR-2000; 2000US-0192179P.
01-JUN-2000; 2000US-0208538P.
30-OCT-2000; 2000US-0244989P.
(UYDE) UNIV DELAWARE.
Kmtc EB, Gamper HB, Rice MC;
WPI; 2001-639230/73.
Oligonucleotide for targeted alterations of genetic sequences and for
treating cystic fibrosis, comprises at least one mismatch and chemical
modification.
Claim 7; Page 44; 294pp; English.
The present invention provides single-stranded oligonucleotides which can
be used for the targeted alteration of genomic sequences, where the
oligonucleotide has at least one mismatch compared with the genomic
sequence to be altered. In particular, these sequences are directed at
the following genes: adenosine deaminase, p53, beta-globin,
retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
(CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
(UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
such as cancer, adenosine deaminase deficiency, cystic fibrosis,
haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
various syndromes. The present sequence is one of the gene correcting
oligonucleotides of the invention
SQ Sequence 17 BP; 2 A; 8 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 89 GGACATCACCACCTCTG 105
Db 1 GGCACACACCTCTCTG 17
RESULT 762
ABA77246
ID ABA77246 standard; RNA; 17 BP.
XX
AC ABA77246;
XX
DT 27-JUN-2003 (first entry)
XX
DE Human GRD Amberzyme substrate oligonucleotide #146.
XX Human; Grb2-related with Insert Domain; GRD; T-cell;
KW

KW co-stimulatory adaptor protein; tissue rejection; graft rejection;
KW leukaemia; cytostatic; ss.
OS Homo sapiens.
XX WO200162911-A2.
XX PD 30-AUG-2001.
XX PF 23-FEB-2001; 2001WO-US005957.
XX PR 24-FEB-2000; 2000US-0184594P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (GLAXO) GLAXO GROUP LTD.
XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, Hamblin PA, Ellis JH;
XX WPI; 2001-550088/61.
XX DR New nucleic acid(s) for regulating the Grb2-related with Insert Domain
XX PT (GRD) gene comprises using antisense and enzymatic nucleic acid
XX PT molecules such as hammerhead ribozymes.
XX PS Claim 4; Page 88; 108pp; English.
XX CC The present invention relates to oligonucleotides that downregulate the
XX CC expression of human Grb2-related with Insert Domain (GRID) gene. GRID is
XX CC a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful
XX CC for modulating the expression of GRID, to treat conditions such as
XX CC tissue/graft rejection and leukaemia. The oligonucleotides can also be
XX CC administered in conjunction with other therapies such as radiation,
XX CC chemotherapy and cyclosporin treatment. The present oligonucleotide was
XX CC used to illustrate the invention
XX SQ Sequence 17 BP; 2 A; 2 C; 9 G; 0 T; 4 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 4.2e+02;
Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 289 AGCTGTGAGGACCTG 305
Db 1 AGUGUGGAGGUCCUG 17
RESULT 763
ABN01488/c
ID ABN01488 standard; DNA; 17 BP.
XX AC ABN01488;
XX DT 29-MAY-2002 (first entry)
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1480.
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.
XX OS Homo sapiens.
XX PN WO200192524-A2.
XX PD 06-DEC-2001.
XX PF 25-MAY-2001; 2001WO-US016981.
XX PR 26-MAY-2000; 2000US-0207456P.
XX PR 21-SEP-2000; 2000US-0234687P.
XX PR 27-SEP-2000; 2000US-0236359P.
XX PR 04-OCT-2000; 2000GB-00024263.
XX PR 30-JAN-2001; 2001WO-US000661.

PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 05-FEB-2001; 2001US-0266860P.
XX (ABOM-) AEOMICA INC.
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX FT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX FT or as specific biomolecule capture probes for surface-enhanced laser
XX FT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX PS Disclosure; SEQ ID NO 1480; 214pp; English.
XX CC The present invention describes a human genome-derived myosin-like
XX CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX CC nucleic acids can be used as probes to detect, characterise and quantify
XX CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX CC provide initial substrates for the recombinant engineering of hGDMPLP-1
XX CC protein variants having desired phenotypic improvements, and for
XX CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX CC -1 proteins, as standards in assays used to determine the concentration
XX CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX CC capture probes for surface-enhanced laser desorption/ionisation, as
XX CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX CC production, and in vaccines or for replacement therapy. The
XX CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX CC disorder associated with the expression of hGDMPLP-1, in particular heart
XX CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX CC The present sequence represents an oligomer used in the screening of the
XX CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX CC The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequence
SQ Sequence 17 BP; 3 A; 5 C; 8 G; 1 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 125 CGGCATGCTGCGCCGCC 141
Db 17 CGGCTTCTGCGCCAGCC 1
RESULT 764
ABN01489/c
ID ABN01489 standard; DNA; 17 BP.
XX AC ABN01489;
XX DT 29-MAY-2002 (first entry)
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1481.
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.
XX OS Homo sapiens.

PN WO200192524-A2.
XX 06-DEC-2001.
XX 25-MAY-2001; 2001WO-US016981.
XX 26-MAY-2000; 2000US-0207456P.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX 30-JAN-2001; 2001WO-US000661.
XX 30-JAN-2001; 2001WO-US000662.
XX 30-JAN-2001; 2001WO-US000663.
XX 30-JAN-2001; 2001WO-US000664.
XX 30-JAN-2001; 2001WO-US000665.
XX 30-JAN-2001; 2001WO-US000666.
XX 30-JAN-2001; 2001WO-US000667.
XX 30-JAN-2001; 2001WO-US000668.
XX 30-JAN-2001; 2001WO-US000669.
XX 05-FEB-2001; 2001WO-US000670.
XX 05-FEB-2001; 2001US-0266860P.
XX (AEOM-) AEOMICA INC.
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX Disclosure; SEQ ID NO 1481; 214pp; English.
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterize and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX of and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption/ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX SQ Sequence 17 BP; 3 A; 5 C; 7 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 124 ACCGATGCTGGCCCG 140
DB 17 ACCGCTCTGCGCAGC 1
RESULT 765
ABN06221/c
ID ABN06221 standard; DNA; 17 BP.
XX
AC ABN06221;

XX 29-MAY-2002 (first entry)
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6213.
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX Homo sapiens.
XX WO200192524-A2.
XX 06-DEC-2001.
XX 25-MAY-2001; 2001WO-US016981.
XX 26-MAY-2000; 2000US-0207456P.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX 30-JAN-2001; 2001WO-US000661.
XX 30-JAN-2001; 2001WO-US000662.
XX 30-JAN-2001; 2001WO-US000663.
XX 30-JAN-2001; 2001WO-US000664.
XX 30-JAN-2001; 2001WO-US000665.
XX 30-JAN-2001; 2001WO-US000666.
XX 30-JAN-2001; 2001WO-US000667.
XX 30-JAN-2001; 2001WO-US000668.
XX 30-JAN-2001; 2001WO-US000669.
XX 05-FEB-2001; 2001WO-US000670.
XX 05-FEB-2001; 2001US-0266860P.
XX (AEOM-) AEOMICA INC.
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX Disclosure; SEQ ID NO 6213; 214pp; English.
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterize and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX of and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption/ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX SQ Sequence 17 BP; 4 A; 7 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 291 CTGGTGAAGGACCTGAG 307
 |||||
 Db 17 CTGTTGACGAGCTGGG 1

RESULT 766
 ABN01022
 ID ABN01022 standard; DNA; 17 BP.
 AC ABN01022;
 XX
 DT 29-MAY-2002 (first entry)
 XX
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1014.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200192524-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 25-MAY-2001; 2001WO-US016981.
 XX
 PR 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024283.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 30-JAN-2001; 2001WO-US000670.
 PR 05-FEB-2001; 2001US-0266860P.
 XX
 PA (AEON-) AECOMICA INC.
 XX
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX
 XX WPI; 2002-179446/23.
 XX
 DR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 or as specific biomolecule capture probes for surface-enhanced laser
 desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX
 PS Disclosure; SEQ ID NO 1014; 214pp; English.
 XX
 CC The present invention describes a human genome-derived myosin-like
 protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 nucleic acids can be used as probes to detect, characterize and quantify
 hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 provide initial substrates for the recombinant engineering of hGDMPLP-1
 protein variants having desired phenotypic improvements, and for
 expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 used as immunogens to raise antibodies that specifically recognize hGDMPLP-
 1 proteins, as standards in assays used to determine the concentration
 and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 capture probes for surface-enhanced laser desorption ionization, as
 therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 disorder associated with the expression of hGDMPLP-1, in particular heart
 and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.

CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence

XX
 SQ Sequence 17 BP; 8 A; 1 C; 8 G; 0 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 206 GAAAGCAGAGACTCGG 222
 |||||
 Db 1 GAAAGCAGAGAGGAGG 17

RESULT 767
 ABN00791/c
 ID ABN00791 standard; DNA; 17 BP.
 XX
 AC ABN00791;
 XX
 DT 29-MAY-2002 (first entry)
 XX
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:783.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200192524-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 25-MAY-2001; 2001WO-US016981.
 XX
 PR 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024283.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 30-JAN-2001; 2001WO-US000670.
 PR 05-FEB-2001; 2001US-0266860P.
 XX
 PA (AEON-) AECOMICA INC.
 XX
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX
 XX WPI; 2002-179446/23.
 XX
 DR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 or as specific biomolecule capture probes for surface-enhanced laser
 desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX
 PS Disclosure; SEQ ID NO 783; 214pp; English.
 XX
 CC The present invention describes a human genome-derived myosin-like
 protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 nucleic acids can be used as probes to detect, characterize and quantify
 hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 provide initial substrates for the recombinant engineering of hGDMPLP-1
 protein variants having desired phenotypic improvements, and for
 expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 used as immunogens to raise antibodies that specifically recognize hGDMPLP-
 1 proteins, as standards in assays used to determine the concentration
 and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 capture probes for surface-enhanced laser desorption ionization, as
 therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 disorder associated with the expression of hGDMPLP-1, in particular heart
 and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.

CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption/ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 4 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 214 AGAATCGGTGGGGCC 230
 DB 17 AGATCTCGGTGCTGGCC 1
 RESULT 768
 ABNO9029
 ID ABNO9029 standard; DNA; 17 BP.
 AC ABNO9029;
 XX
 XX 29-MAY-2002 (first entry)
 XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9021.
 DE Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX Homo sapiens.
 XX WO200192524-A2.
 XX 06-DEC-2001.
 XX 25-MAY-2001; 2001WO-US016981.
 XX 26-MAY-2000; 2000US-0207456P.
 XX 21-SEP-2000; 2000US-0234687P.
 XX 27-SEP-2000; 2000US-0236359P.
 XX 04-OCT-2000; 2000GB-00024263.
 XX 30-JAN-2001; 2001WO-US000661.
 XX 30-JAN-2001; 2001WO-US000662.
 XX 30-JAN-2001; 2001WO-US000663.
 XX 30-JAN-2001; 2001WO-US000665.
 XX 30-JAN-2001; 2001WO-US000666.
 XX 30-JAN-2001; 2001WO-US000667.
 XX 30-JAN-2001; 2001WO-US000668.
 XX 05-FEB-2001; 2001US-0266860P.
 XX (ABOM-) AEOMICA INC.
 PA Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 FI WPI; 2002-179446/23.
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 XX

PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
 XX Disclosure; SEQ ID NO 9021; 214pp; English.
 XX The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption/ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 5 A; 2 C; 7 G; 3 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 289 AGCTGGTGAGGACCTG 305
 DB 1 AGCTGGAGAGTACGTG 17
 RESULT 769
 ABNO9927/c
 ID ABNO9927 standard; DNA; 17 BP.
 XX AC ABNO9927;
 XX 29-MAY-2002 (first entry)
 XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9919.
 DE Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 OS Homo sapiens.
 XX WO200192524-A2.
 XX 06-DEC-2001.
 XX 25-MAY-2001; 2001WO-US016981.
 XX 26-MAY-2000; 2000US-0207456P.
 XX 21-SEP-2000; 2000US-0234687P.
 XX 27-SEP-2000; 2000US-0236359P.
 XX 04-OCT-2000; 2000GB-00024263.
 XX 30-JAN-2001; 2001WO-US000661.
 XX 30-JAN-2001; 2001WO-US000662.
 XX 30-JAN-2001; 2001WO-US000663.
 XX 30-JAN-2001; 2001WO-US000664.
 XX 30-JAN-2001; 2001WO-US000665.
 XX 30-JAN-2001; 2001WO-US000666.
 XX 30-JAN-2001; 2001WO-US000667.
 XX 30-JAN-2001; 2001WO-US000668.
 XX 30-JAN-2001; 2001WO-US000669.
 XX 05-FEB-2001; 2001US-0266860P.

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PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-026686P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 9919; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX capture probes for surface-enhanced laser desorption ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 2 A; 6 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 71 CTACAGGCGCGCGCAG 87
XX 17 CTAAGAGGAGCTGCAG 1
XX
XX RESULT 770
XX ABN01487/C
XX ID ABN01487 standard; DNA; 17 BP.
XX AC ABN01487;
XX
XX 29-MAY-2002 (first entry)
XX
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1479.
XX
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX
XX Homo sapiens.
XX
XX WO200192524-A2.
XX
XX 06-DEC-2001.
XX
XX 25-MAY-2001; 2001WO-US016981.
XX
XX 26-MAY-2000; 2000US-0207456P.

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PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-026686P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 1479; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 4 A; 5 C; 7 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 126 GCGATGCTGGCGCGCT 142
XX 17 GCGTCTCTGGCGCGCT 1
XX
XX RESULT 771
XX ABQ63350
XX ID ABQ63350 standard; DNA; 17 BP.
XX AC ABQ63350;
XX
XX 20-AUG-2002 (first entry)
XX
XX Human KTOM1a portion (ABQ63232) probe # 63.
XX
XX Human; KTOM1a; KTOM1; kidney tumour overexpressed membrane; cytostatic;
XX gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;

```

KW	kidney; colon; skeletal muscle; testis; uterus; placenta; probe; sb.
XX	
OS	Homo sapiens.
XX	
FN	WO200224750-A2.
XX	
XX	
PD	28-MAR-2002.
XX	
PF	21-SEP-2001; 2001WO-US029656.
XX	
PR	21-SEP-2000; 2000US-0234687P.
PR	27-SEP-2000; 2000US-0236359P.
PR	04-OCT-2000; 2000GB-00024263.
PR	30-JAN-2001; 2001WO-US000661.
PR	30-JAN-2001; 2001WO-US000662.
PR	30-JAN-2001; 2001WO-US000663.
PR	30-JAN-2001; 2001WO-US000664.
PR	30-JAN-2001; 2001WO-US000665.
PR	30-JAN-2001; 2001WO-US000666.
PR	30-JAN-2001; 2001WO-US000667.
PR	30-JAN-2001; 2001WO-US000668.
PR	30-JAN-2001; 2001WO-US000669.
PR	30-JAN-2001; 2001WO-US000670.
PR	23-MAY-2001; 2001US-00864761.
PR	28-AUG-2001; 2001US-0315676P.
XX	
PA	(AEOM-) AEOMICA INC.
XX	
PI	Zhang J;
XX	
DR	WPI; 2002-479509/51.
XX	
PT	New human kidney tumor overexpressed membrane (KTOM1) protein and nu
PT	acids encoding the protein, useful for treating subjects having defe
PT	in KTOM1 which can manifest as cancer of the kidney, or as a disorde
PT	e.g., liver or bone.
XX	
PS	Example 2; Page 165; 418pp; English.
XX	
CC	The invention relates to a novel isolated nucleic acid encoding huma
CC	KTOM1 (kidney tumour overexpressed membrane) protein. The protein of
CC	invention has cytostatic activity. The nucleotide may have a use in
CC	therapy. The KTOM1 nucleic acids may be used to diagnose, treat or
CC	monitor a disease caused by altered expression of human KTOM1.
CC	Compositions comprising the nucleic acids, proteins or antibodies ma
CC	used to treat subjects having defects in KTOM1 which can manifest as
CC	cancer of the kidney, as well as a disorder of liver, bone marrow, b
CC	heart, lung, kidney, colon, skeletal muscle, testis, uterus and plac
CC	function. The sequence represents a probe used in the invention to s
CC	the nt 1-1001 portion of human KTOM1a (ABQ63232)
XX	
SQ	Sequence 17 BP; 5 A; 5 C; 5 G; 2 T; 0 U; 0 Other;
	Query Match 2.9%; Score 12.2; DB 1; Length 17;
	Best Local Similarity 82.4%; Pred.No.4.2e+02;
	Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps
Qy	43 ATGCCACCACTCAGAG 59
Db	1 ATGACGACCGCTCAGAG 17
RESULT 772	
ABQ63351	
ID	ABQ63351 standard; DNA; 17 BP.
XX	
AC	ABQ63351;
XX	
XX	
DT	20-AUG-2002 (first entry)
XX	
DE	Human KTOM1a portion (ABQ63232) probe # 64.
XX	
KW	Human; KTOM1a; KTOM1; kidney tumour overexpressed membrane; cytostat

gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
Homo sapiens.
WO200224750-A2.
28-MAR-2002.
21-SEP-2001; 2001WO-US029656.
21-SEP-2000; 2000US-0234687P.
27-SEP-2000; 2000US-0236359P.
04-OCT-2000; 2000GB-0002423.
30-JAN-2001; 2001WO-US000681.
30-JAN-2001; 2001WO-US000682.
30-JAN-2001; 2001WO-US000683.
30-JAN-2001; 2001WO-US000684.
30-JAN-2001; 2001WO-US000685.
30-JAN-2001; 2001WO-US000686.
30-JAN-2001; 2001WO-US000687.
30-JAN-2001; 2001WO-US000688.
30-JAN-2001; 2001WO-US000689.
30-JAN-2001; 2001WO-US000690.
23-MAY-2001; 2001US-00864761.
28-SEP-2001; 2001US-0315676P.
(AEOM-) AEOMICA INC.
Zhang J;
WPI; 2002-479509/51.
New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic acids encoding the protein, useful for treating subjects having defects in KTOM1 which can manifest as cancer of the kidney, or as a disorder of e.g., liver or bone.
Example 2; Page 166; 418pp; English.
The invention relates to a novel isolated nucleic acid encoding human KTOM1 (kidney tumour overexpressed membrane) protein. The protein of the invention has cytostatic activity. The nucleotide may have a use in gene therapy. The KTOM1 nucleic acids may be used to diagnose, treat or monitor a disease caused by altered expression of human KTOM1.
Compositions comprising the nucleic acids, proteins or antibodies may be used to treat subjects having defects in KTOM1 which can manifest as cancer of the kidney, as well as a disorder of liver, bone marrow, brain, heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta function. The sequence represents a probe used in the invention to scan the nt 1-1001 portion of human KTOM1a (ABQ63232)
Sequence 17 BP; 4 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0
Oy 44 TGGCCACCACCTCAGAGG 60
D5 1 TGACGACCGCTCAGAGG 17
RESULT 773
ABV85548
ID ABV85548 standard; DNA; 17 BP.
AC ABV85548;
XX
DT 11-DEC-2002 (first entry)
XX
DE Human pp-GalTase 10 scanning 17-mer SEQ ID NO:541.
XX

KW Human; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10;
 KW DP-GaNTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX EP1243660-A2.
 XX PD 25-SEP-2002.
 XX PF 25-SEP-2002.
 XX PR 25-JAN-2002; 2002EP-00001161.
 XX PR 30-JAN-2001; 2001WO-US000663.
 XX PR 30-JAN-2001; 2001WO-US000664.
 XX PR 30-JAN-2001; 2001WO-US000665.
 XX PR 30-JAN-2001; 2001WO-US000666.
 XX PR 30-JAN-2001; 2001WO-US000667.
 XX PR 30-JAN-2001; 2001WO-US000668.
 XX PR 30-JAN-2001; 2001WO-US000669.
 XX PR 30-JAN-2001; 2001WO-US000670.
 XX PR 23-MAY-2001; 2001US-00864761.
 XX PR 30-AUG-2001; 2001US-0315984P.
 XX PA (AEOM-) AEOMICA INC.
 XX PI Zhang J, Gu Y, Nguyen C;
 XX WPI; 2002-724954/79.
 XX DR Nucleic acid encoding human UDP-GalNAc:polypeptide N-
 XX PT cetylglactosaminyltransferase 10 protein is useful to diagnose, prevent
 XX PT and treat disorders associated with reduced or over expression of the
 XX PT encoded protein.
 XX PS Example 2; SEQ ID NO 541; 59pp; English.
 XX CC The present invention describes an isolated nucleic acid (I) encoding a
 XX CC human UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10 (pp-
 XX CC GaNTase 10, EC 2.4.1.41) protein. Human pp-GaNTase 10 is located to
 XX CC chromosome 7q11.2. (I) can be used in gene therapy. Molecules of the
 XX CC present invention can be used in therapy, particularly to prevent or
 XX CC treat a disorder associated with decreased expression or activity of pp-
 XX CC GaNTase. The sequences given in ABV85011 to ABV8689 and ABP53502 to
 XX CC ABP53504 are given in the exemplification of the present invention. N.B.
 XX CC The sequence data for this patent is not represented in the printed
 XX CC specification but is based on sequence information supplied by the
 XX CC European Patent Office
 XX SQ Sequence 17 BP; 4 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 403 TCTTCTACGTGTCGAG 419
 DB 1 TCATCTTCGTGAACGAG 17
 RESULT 774
 ABV85708
 ID ABV85708 standard; DNA; 17 BP.
 XX AC ABV85708;
 XX DT 11-DEC-2002 (first entry)
 XX DE Human pp-GaNTase 10 scanning 17-mer SEQ ID NO:701.
 XX KW Human; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10;
 KW KW pp-GaNTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;
 KW ss.

XX Homo sapiens.
 OS Synthetic.
 XX EP1243660-A2.
 XX PD 25-SEP-2002.
 XX PF 25-JAN-2002; 2002EP-00001161.
 XX PR 30-JAN-2001; 2001WO-US000663.
 XX PR 30-JAN-2001; 2001WO-US000664.
 XX PR 30-JAN-2001; 2001WO-US000665.
 XX PR 30-JAN-2001; 2001WO-US000666.
 XX PR 30-JAN-2001; 2001WO-US000667.
 XX PR 30-JAN-2001; 2001WO-US000668.
 XX PR 30-JAN-2001; 2001WO-US000669.
 XX PR 30-JAN-2001; 2001WO-US000670.
 XX PR 23-MAY-2001; 2001US-00864761.
 XX PR 30-AUG-2001; 2001US-0315984P.
 XX PA (AEOM-) AEOMICA INC.
 XX PI Zhang J, Gu Y, Nguyen C;
 XX WPI; 2002-724954/79.
 XX DR Nucleic acid encoding human UDP-GalNAc:polypeptide N-
 XX PT cetylglactosaminyltransferase 10 protein is useful to diagnose, prevent
 XX PT and treat disorders associated with reduced or over expression of the
 XX PT encoded protein.
 XX PS Example 2; SEQ ID NO 701; 59pp; English.
 XX CC The present invention describes an isolated nucleic acid (I) encoding a
 XX CC human UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10 (pp-
 XX CC GaNTase 10, EC 2.4.1.41) protein. Human pp-GaNTase 10 is located to
 XX CC chromosome 7q11.2. (I) can be used in gene therapy. Molecules of the
 XX CC present invention can be used in therapy, particularly to prevent or
 XX CC treat a disorder associated with decreased expression or activity of pp-
 XX CC GaNTase. The sequences given in ABV85011 to ABV8689 and ABP53502 to
 XX CC ABP53504 are given in the exemplification of the present invention. N.B.
 XX CC The sequence data for this patent is not represented in the printed
 XX CC specification but is based on sequence information supplied by the
 XX CC European Patent Office
 XX SQ Sequence 17 BP; 2 A; 5 C; 8 G; 2 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 284 CACCAAGCTGGTGAAGG 300
 DB 1 CCCCAGGCTGGTGAAGG 17
 RESULT 775
 ABV79551/c
 ID ABV79551 standard; DNA; 17 BP.
 XX AC ABV79551;
 XX DT 03-JAN-2003 (first entry)
 XX DE Human HTPL scanning oligonucleotide SEQ ID 797.
 XX KW Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;
 KW KW male testis expressed Patched like protein; testis; adrenal; liver;
 KW KW male germ cell development; bone marrow; brain; kidney; lung; placenta;
 KW KW prostate; skeletal muscle; colon; male infertility; cancer; ss.
 XX OS Homo sapiens.

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XX PN EP1229046-A2.
XX PN
XX PD 07-AUG-2002.
XX PF
XX PP 28-JAN-2002; 2002EP-00001167.
XX PR 30-JAN-2001; 2001WO-US0000663.
XX PR 30-JAN-2001; 2001WO-US0000664.
XX PR 30-JAN-2001; 2001WO-US0000665.
XX PR 30-JAN-2001; 2001WO-US0000666.
XX PR 30-JAN-2001; 2001WO-US0000667.
XX PR 30-JAN-2001; 2001WO-US0000668.
XX PR 30-JAN-2001; 2001WO-US0000669.
XX PR 23-MAY-2001; 2001US-00864761.
XX PR 09-OCT-2001; 2001US-03278989.
XX PA (AEOM-) AEOMICA INC.
XX PI
XX PI Zhan J;
XX DR WP1; 2002-676582/73.
XX DR
XX PT Novel isolated human testis expressed Patched like protein (HTPL), useful
XX PT for identifying agonist and antagonist and specific binding partners, and
XX PT for treating subjects having defects in HTPL.
XX PS Example 2; Page 168; 718pp; English.
XX CC The present invention relates to human testis expressed Patched like
XX CC protein (HTPL, see ABV78759 to ABV78762 and ABV98519 to ABV98520). HTPL
XX CC has two isoforms, with a few single base pair differences between the
XX CC two. One of the single base pair changes introduces a premature stop
XX CC codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL
XX CC shares an overall structure organisation with the Patched protein. The
XX CC shared structural features strongly imply that HTPL plays a role similar
XX CC to that of Patched, and is a potential tumour suppressor. HTPL is
XX CC important in regulating male germ cell development, and the HTPL gene was
XX CC mapped to human chromosome 10p12.1. HTPL and its coding sequence are
XX CC useful for diagnosing a disorder caused by mutation in HTPL, and in
XX CC therapy and manufacture of a medicament for treatment or prevention of
XX CC such disorder associated with decreased expression or activity of human
XX CC HTPL. Such disorders include disorders of testis, or adrenal, adult and
XX CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,
XX CC skeletal muscle or colon function. HTPL proteins and nucleic acids are
XX CC clinically useful diagnostic markers and potential therapeutic agents for
XX CC male infertility and cancer. The present oligonucleotide was used in an
XX CC example from the invention
XX SQ Sequence 17 BP; 3 A; 4 C; 9 G; 1 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 373 TCTGACCGCGACGAC 389
Db 17 TCTGACCGCGCGGTC 1
RESULT 776
ABV91033/c
XX ID ABV91033 standard; DNA; 17 BP.
XX AC ABV91033;
XX DT 23-DEC-2002 (first entry)
XX DE Human POSHL1 scanning oligonucleotide SEQ ID NO 1746.
XX KW Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
XX KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
XX KW gene therapy; transgenic; ss.
XX KW
```

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OS Homo sapiens.
XX XX
XX PN EP1239051-A2.
XX PD
XX PF 11-SEP-2002.
XX PP 28-JAN-2002; 2002EP-00001165.
XX PR 30-JAN-2001; 2001WO-US0000663.
XX PR 30-JAN-2001; 2001WO-US0000664.
XX PR 30-JAN-2001; 2001WO-US0000665.
XX PR 30-JAN-2001; 2001WO-US0000666.
XX PR 30-JAN-2001; 2001WO-US0000667.
XX PR 30-JAN-2001; 2001WO-US0000668.
XX PR 30-JAN-2001; 2001WO-US0000669.
XX PR 23-MAY-2001; 2001US-00864761.
XX PR 10-OCT-2001; 2001US-0328205P.
XX PA (AEOM-) AEOMICA INC.
XX PI
XX PI Shannon M;
XX DR WP1; 2002-684061/74.
XX DR
XX PT Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide, POSHL
XX PT -1, useful for treating disorders associated with decreased expression or
XX PT activity of human POSHL1.
XX PS Example 2; SEQ ID NO 1746; 60pp + Sequence Listing; English.
XX CC The invention relates to an isolated SH3 domain (POSH)-like signalling
XX CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
XX CC acids (SI, ABB83999), a sequence having 65% sequence identity to (SI),
XX CC (SI) having 95% deviations, especially conservative substitutions or a
XX CC fragment of the sequences comprising at least 8 contiguous amino acids.
XX CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
XX CC adaptor protein that interacts with Rho family small GTPases as well as
XX CC downstream components of the signal transduction pathway. (I) is useful
XX CC for identifying a specific binding partner. (I) and nucleic acids (II)
XX CC encoding (I) are useful for diagnosing, monitoring disease and treating
XX CC caused by altered expression of human POSHL1 including diagnosing and
XX CC treating cancer, therapy. (II) is useful in the development of vaccines and (II) is
XX CC useful in gene therapy. (II) is useful for constructing microarrays which
XX CC are useful for measuring and for surveying gene expression and creating
XX CC transgenic non-human animals capable of producing the proteins. The
XX CC present sequence is that of a scanning oligonucleotide useful in examples
XX CC of the invention. Note: The present sequence did not form part of the
XX CC printed specification, but is based on sequence information supplied to
XX CC Derwent by the European Patent Office
XX SQ Sequence 17 BP; 4 A; 7 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 340 AGGGCCGGCTGCTCTAC 356
Db 17 AGGGCCGGCTGCTCTC 1
RESULT 777
ABL31783/c
XX ID ABL31783 standard; DNA; 17 BP.
XX AC ABL31783;
XX DT 21-MAR-2002 (first entry)
XX DE Human HLA genotyping oligonucleotide SEQ ID NO 1272.
XX KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
```


PA (EPIG-) EPIGENESIS PHARM INC.
XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX WPI; 2003-229219/22.
XX
XX Pharmaceutical composition for treating ailments associated with impaired
PT respiration, has oligo(s) antisense to specific gene(s) or its
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
PT ubiquinone.
XX
XX Disclosure; SEQ ID NO 10779; 872pp; English.
XX
XX The invention relates to a novel pharmaceutical composition, which has a
CC first active agent comprising an oligonucleotide antisense to the
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
CC junctions of genes encoding a polypeptide associated with lung and/or
CC nasal airway dysfunction and a second active agent comprising an
CC antiinflammatory steroid and ubiquinone. A composition of the invention
CC has antiinflammatory, antiasthmatic, antiallergic, hypotensive,
CC immunosuppressive, and cytostatic activity. The composition may have a
CC use in antisense gene therapy. The composition is useful for treating or
CC preventing a respiratory, lung or malignant disease or condition, also
CC for enhancing the prophylactic or therapeutic respiratory effect of an
CC antiinflammatory steroid in a subject, for reducing or depleting levels
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
CC receptor, producing bronchodilation, increasing levels of ubiquinone or
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
CC lung inflammation, lung allergies, or a respiratory disease or condition.
CC Note: The sequence data for this patent is not represented in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 17 BP; 0 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
SQ
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 268 ACCTGAGCGAGCGCGC 284
DB 17 ACCGGCAGCAGGACGCGC 1
RESULT 780
ABZ99035
ID ABZ99035 standard; DNA; 17 BP.
XX AC ABZ99035;
XX DT 17-OCT-2003 (first entry)
XX DE Human PDE4A-MTA oligonucleotide sequence.
XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;
KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW lung inflammation; respiratory disease; ds.
XX
XX Homo sapiens.
XX
XX WO200285308-A2.
XX
XX 31-OCT-2002.
XX
XX 23-APR-2002; 2002WO-US013135.
XX
XX 24-APR-2001; 2001US-0286137P.
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX WPI; 2003-229219/22.
XX
XX Pharmaceutical composition for treating ailments associated with impaired
PT respiration, has oligo(s) antisense to specific gene(s) or its
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
PT ubiquinone.
XX
XX Disclosure; SEQ ID NO 10779; 872pp; English.
XX
XX The invention relates to a novel pharmaceutical composition, which has a
CC first active agent comprising an oligonucleotide antisense to the
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
CC junctions of genes encoding a polypeptide associated with lung and/or
CC nasal airway dysfunction and a second active agent comprising an
CC antiinflammatory steroid and ubiquinone. A composition of the invention
CC has antiinflammatory, antiasthmatic, antiallergic, hypotensive,
CC immunosuppressive, and cytostatic activity. The composition may have a
CC use in antisense gene therapy. The composition is useful for treating or
CC preventing a respiratory, lung or malignant disease or condition, also
CC for enhancing the prophylactic or therapeutic respiratory effect of an
CC antiinflammatory steroid in a subject, for reducing or depleting levels
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
CC receptor, producing bronchodilation, increasing levels of ubiquinone or
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
CC lung inflammation, lung allergies, or a respiratory disease or condition.
CC Note: The sequence data for this patent is not represented in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 17 BP; 0 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
SQ
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 268 ACCTGAGCGAGCGCGC 284
DB 17 ACCGGCAGCAGGACGCGC 1
RESULT 781
ABZ76563
ID ABZ76563 standard; DNA; 17 BP.
XX AC ABZ76563;
XX DT 29-APR-2003 (first entry)
XX DE Lactobacillus brevis PCR primer ORF4 SEQ ID NO:66.
XX KW Lactobacillus brevis; beer turbidity; beer clouding; beer; detection;
KW lactic acid bacteria; brewing; probe; PCR primer; ss.
XX
XX Lactobacillus brevis.
XX
XX WO200295028-A1.
XX
XX 28-NOV-2002.
XX
XX 23-MAY-2002; 2002WO-JP005022.
XX
XX 23-MAY-2001; 2001JP-00154085.
XX
XX (KIRI) KIRIN BEER KK.
XX
XX Fujii T;
PI

DR WPI; 2003-120803/11.
XX Polynucleotide probes and primers for detecting beer-clouding lactic acid
PT bacteria, for quality control during beer production applicable in
FT brewing industry.
XX
XX
PS Claim 7; Page 31; 94pp; Japanese.
XX
CC The present invention describes a polynucleotide probe, or primer, for
CC detecting beer-clouding lactic acid bacteria containing a nucleotide
CC sequence of (I) with 8056 base pairs (see AB276501), or a nucleotide made
CC from not less than 15 nucleotides hybridisable with its complementary
CC sequence. Probes and primers from the present invention can be used for
CC detecting beer-clouding lactic acid bacteria (Lactobacillus brevis) for
CC quality control during beer production, which is applicable in the
CC brewing industry. The present sequence represents a PCR primer for
CC Lactobacillus brevis which is used in the exemplification of the present
CC invention
XX
SQ Sequence 17 BP; 5 A; 4 C; 5 G; 3 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 225 GCGGCCCAATCGGAGG 241
Db 1 GCAGCCCAATCGTGATG 17
RESULT 782
ACCS1810
ID ACC51810 standard; DNA; 17 BP.
XX
AC ACC51810;
XX
DT 27-JUN-2003 (first entry)
XX
DE Human tumour suppressor sequence #577.
XX
KW ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
KW tumour regression; apoptosis; virus resistance; diagnosis;
KW cellular degeneration.
XX
OS Homo sapiens.
XX
FN FR2826373-A1.
XX
PD 27-DEC-2002.
XX
PP 20-JUN-2001; 2001FR-00008139.
XX
PR 20-JUN-2001; 2001FR-00008139.
XX
PA (MOLE-) MOLECULAR ENGINES LAB SA.
XX
PI Tuijnder M, Telerman A, Amson R;
XX
XX WPI; 2003-250498/25.
DR
XX New nucleic acid sequences associated with tumor suppression, regression,
PT apoptosis or virus resistance are useful to diagnose and treat viral
PT disease, development of tumor cells and cell degeneration.
XX
XX Claim 1; Page 173; 798pp; French.
XX
CC This sequence represents an isolated nucleic acid sequence associated
CC with tumour suppression or regression, apoptosis or virus resistance. The
CC invention relates to these sequences or sequences having at least 80%
CC identity to them, and polypeptides encoded by the sequences or
CC polypeptides having 80% identity to the polypeptide sequences. The
CC invention is used to diagnose or treat viral disease or disease
CC characterized by development of tumour cells or cellular degeneration

XX
SQ Sequence 17 BP; 6 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 273 GAGCAGGGCGGCACCAA 289
Db 1 GATCAGGGCAGCACTAA 17
RESULT 783
ACA99694
ID ACA99694 standard; DNA; 17 BP.
XX
AC ACA99694;
XX
DT 28-JUL-2003 (first entry)
XX
DE G-protein coupled receptor GPCR-A-1 analysis oligonucleotide #187.
XX
KW Human; G-protein coupled receptor; GPCR-A-1; cancer; tumour;
KW G-Protein-Agonist; G-Protein-Antagonist; gene therapy; cytostatic; ss.
XX
OS Homo sapiens.
XX
FN WO2003031621-A2.
XX
PD 17-APR-2003.
XX
PP 11-OCT-2002; 2002WO-US032599.
XX
PR 12-OCT-2001; 2001US-0329000P.
XX
PA (AMSH) AMERSHAM BIOSCIENCES SV CORP.
XX
PI Zhang J;
XX
DR WPI; 2003-381720/36.
XX
XX New GPCR-A-1 nucleic acid and polypeptide, useful for diagnosing,
PT investigating and/or treating disorders associated with aberrant
PT expression or activity of GPCR-A-1, such as tumors and cancers.
XX
XX Example 2; SEQ ID NO 211; 156pp; English.
XX
CC The invention describes an isolated nucleic acid encoding a G protein
CC coupled receptor (GPCR), mutations of which cause cancer, comprising a
CC 2225 or 1921 base pair sequence, or their degenerate variants, encoding a
CC 409 residue amino acid sequence, all given in the specification, with or
CC without conservative amino acid substitutions, or complements of the
CC sequence of them. The encoding nucleic acid is not more than 100 kbase in
CC length. The methods and compositions of the present invention are useful
CC for diagnosing, investigating and/or treating disorders associated with
CC aberrant expression or activity of GPCR-A-1, such as tumours and cancers.
CC This sequence represents an oligonucleotide used to analyse the gene
CC encoding human G-protein coupled receptor GPCR-A-1
XX
XX Sequence 17 BP; 4 A; 3 C; 7 G; 3 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 288 AAGCTGGTGAAGGACCT 304
Db 1 AAGCTGGTGAAGGACCT 17
RESULT 784
ABT37105/C
ID ABT37105 standard; DNA; 17 BP.

XX	12-JUN-2003	(first entry)	Tumour suppression related human fukutin oligo SEQ ID NO 288.	Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.	Homo sapiens.	WO2003025175-A2.	27-MAR-2003.	17-SEP-2002; 2002WO-IB004208.	17-SEP-2001; 2001FR-00011978.	(MOLE-) MOLECULAR ENGINES LAB.	Telerman A, Amson R, Tuijnder M; WPI; 2003-313353/30.	New isolated nucleic acid, useful for treating vital diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.	Disclosure; Page 67; 720pp; French.	The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention	Sequence 17 BP; 3 A; 1 C; 8 G; 5 T; 0 U; 0 Other;	Query Match 2.9%; Score 12.2; DB 1; Length 17; Best Local Similarity 82.4%; Pred. No. 4.2e-02; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	QY 92 CATCACCACTCTGACC 108 DB 17 CAACACCACTCTGATC 1	RESULT 786 ABT37464/c ID ABT37464 standard; DNA; 17 BP. XX AC ABT37464; XX DT 12-JUN-2003 (first entry)
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XX DE Tumour suppression related human fukutin oligo SEQ ID No 3101.

XX KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;

XX KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;

XX KW schizophrenia; protein chip; gene therapy; tumour suppression;

XX KW human fukutin; ds.

XX OS Homo sapiens.

XX EN WO2003025175-A2.

XX PD 27-MAR-2003.

XX FF 17-SEP-2002; 2002WO-IB004208.

XX PR 17-SEP-2001; 2001FR-00011978.

XX PA (MOLE-) MOLECULAR ENGINES LAB.

XX PI Telexman A, Anson R, Tuijnder M;

XX DR WPI; 2003-313353/30.

XX PT New isolated nucleic acid, useful for treating viral diseases associated

XX PT with tumors and cell degeneration, also related polypeptides, antibodies

XX PT and transfected cells.

XX PS Disclosure; Page 395; 720pp; French.

XX CC The invention relates to a novel isolated 17 mer nucleic acid sequence,

XX CC given in the specification, a sequence containing at least 15 consecutive

XX CC nucleotides from the 17 mer sequence, a sequence with, after optimal

XX CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that

XX CC hybridizes to them under highly stringent conditions, or the complement

XX CC of any of them, or the corresponding RNA. The novel isolated nucleic

XX CC acids of the invention are useful as probes and primers for detecting,

XX CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one

XX CC component of a gene chip, in vitro as (anti)sense reagents, and for

XX CC production of recombinant polypeptides. Any of the nucleic acids,

XX CC polypeptides, vectors containing the nucleic acids, cells containing the

XX CC vector or antibodies directed against the polypeptides are useful for

XX CC preparation of pharmaceuticals for prevention and/or treatment of viral

XX CC diseases that are characterized by development of tumours or cell

XX CC degeneration, specifically cancer but also Alzheimer's disease and

XX CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in

XX CC patient samples is useful for diagnosis and/or prognosis of these

XX CC diseases. The polypeptides can also be used to generate antibodies, and

XX CC both the polypeptide and antibodies are useful as components of protein

XX CC chips. The nucleic acid sequences of the invention can be used in gene

XX CC therapy. This polynucleotide sequence represents a tumour suppression

XX CC related human fukutin oligonucleotide of the invention

XX SQ Sequence 17 BP; 2 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 302 CCTGAGCCCGGGGACC 318

Db 17 CCTGAGCCCGGGGACC 1

RESULT 787

ACA07885

ID ACA07885 standard; RNA; 17 BP.

XX AC ACA07885;

XX 03-JUN-2003 (first entry)

XX NFKB sub-unit modulating zinzyme substrate #284.

XX KW Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;

XX KW G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;

XX KW lung cancer; prostate cancer; colorectal cancer; brain cancer;

XX KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;

XX KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;

XX KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;

XX KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;

XX KW cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate;

XX KW gencitabine; radiation therapy; inflammatory disease; asthma; diabetes;

XX KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;

XX KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;

XX KW transplant/graft rejection; reperfusion injury; glomerulonephritis;

XX KW allergic airway inflammation; inflammatory bowel disease; infection; ss.

XX OS Homo sapiens.

XX EN US2002177568-A1.

XX PD 28-NOV-2002.

XX FF 23-MAY-2001; 2001US-00864785.

XX PR 07-DEC-1992; 92US-00987132.

XX PR 18-MAY-1994; 94US-00245466.

XX PR 15-AUG-1994; 94US-00291932.

XX PR 23-DEC-1996; 96US-00777916.

XX PA (STIN/) STINCHCOMB D T.

XX PA (MCSW/) MCSWIGGEN J.

XX PA (DRAP/) DRAPER K G.

XX PI Stinchcomb DT, Mcswiggen J, Draper KG;

XX DR WPI; 2003-340953/32.

XX PT Novel enzymatic nucleic acid molecules which down regulates expression of

XX PT a sequence encoding a subunit of nuclear factor kappa B useful for

XX PT treating cancer, inflammatory disorders and autoimmune diseases.

XX PS Claim 3; Page 41; 72pp; English.

XX CC The invention describes an enzymatic nucleic acid molecule (I) which down

XX CC regulates expression of a sequence encoding a subunit of nuclear factor

XX CC kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme

XX CC configuration. The enzymatic nucleic acid molecule is adapted to treat

XX CC cancer and is useful for down-regulating REL-A activity in a cell, for

XX CC treating a patient having a condition associated with the level of REL-A.

XX CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in

XX CC the presence of a divalent cation, especially Mg²⁺. The enzymatic and

XX CC antisense nucleic acid molecules are useful for treating breast, lung,

XX CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,

XX CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or

XX CC multidrug resistant cancer. The method involves use of other drug

XX CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or

XX CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,

XX CC cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate,

XX CC gencitabine or radiation therapy. The enzymatic and antisense nucleic

XX CC acid molecules are also useful for treating inflammatory disease such as

XX CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,

XX CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft

XX CC rejection, gene therapy applications, ischaemia/reperfusion injury

XX CC (central nervous system (CNS) and myocardial), glomerulonephritis,

XX CC sepsis, allergic airway inflammation, inflammatory bowel disease or

XX CC infection. This sequence represents the substrate of a novel enzymatic

XX CC nucleic acid molecule

XX SQ Sequence 17 BP; 2 A; 6 C; 6 G; 0 T; 3 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 70.6%; Pred. No. 4.2e+02;

Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

CC configuration. The enzymatic nucleic acid molecule is adapted to treat
CC cancer and is useful for down-regulating REL-A activity in a cell, for
CC treating a patient having a condition associated with the level of REL-A.
CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in
CC the presence of a divalent cation, especially Mg²⁺. The enzymatic and
CC antisense nucleic acid molecules are useful for treating breast, lung,
CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,
CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or
CC multidrug resistant cancer. The method involves use of other drug
CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or
CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,
CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,
CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic
CC acid molecules are also useful for treating inflammatory disease such as
CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,
CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft
CC rejection, gene therapy applications, ischaemia/reperfusion injury
CC (central nervous system (CNS) and myocardial), glomerulonephritis,
CC sepsis, allergic airway inflammation, inflammatory bowel disease or
CC infection. This sequence represents the substrate of a novel enzymatic
CC nucleic acid molecule
XX
XX Sequence 17 BP; 2 A; 3 C; 5 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 180 TCCAGGCGACATATCCA 196
DB 17 TCCAGGCGACATATCCA 1
RESULT 790
ACA09012
ID ACA09012 standard; RNA; 17 BP.
XX
XX ACA09012;
AC
AC 03-JUN-2003 (first entry)
DT
XX
XX NFkB sub-unit modulating amberzyme substrate #175.
XX
XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;
XX G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;
XX lung cancer; prostate cancer; colorectal cancer; brain cancer;
XX oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;
XX cervical cancer; head and neck cancer; ovarian cancer; melanoma;
XX lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;
XX chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;
XX cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;
XX gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;
XX rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;
XX gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;
XX transplant/graft rejection; reperfusion injury; glomerulonephritis;
XX allergic airway inflammation; inflammatory bowel disease; infection; ss.
XX
XX Homo sapiens.
OS
XX
XX US2002177568-A1.
FN
XX
XX 28-NOV-2002.
PD
XX
XX 23-MAY-2001; 2001US-00864785.
PF
XX
XX 07-DEC-1992; 92US-00397132.
PR
XX 18-MAY-1994; 94US-00245466.
PR
XX 15-AUG-1994; 94US-00291932.
PR
XX 23-DEC-1996; 96US-00777916.
XX
XX (STIN/) STINCHCOMB D T.
PA (MCSW/) MCSWIGEN J.
PA (DRAP/) DRAPER K G.

XX Stinchcomb DT, Mcswiggen J, Draper KG;
PI WPT; 2003-340953/32.
XX
XX Novel enzymatic nucleic acid molecules which down regulates expression of
XX a sequence encoding a subunit of nuclear factor kappa B useful for
XX treating cancer, inflammatory disorders and autoimmune diseases.
PT
PT Claim 3; Page 54; 72pp; English.
XX
XX The invention describes an enzymatic nucleic acid molecule (I) which down
XX regulates expression of a sequence encoding a subunit of nuclear factor
XX kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme
XX configuration. The enzymatic nucleic acid molecule is adapted to treat
XX cancer and is useful for down-regulating REL-A activity in a cell, for
XX treating a patient having a condition associated with the level of REL-A.
XX (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in
XX the presence of a divalent cation, especially Mg²⁺. The enzymatic and
XX antisense nucleic acid molecules are useful for treating breast, lung,
XX prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,
XX cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or
XX multidrug resistant cancer. The method involves use of other drug
XX therapies such as monoclonal antibodies, REL-A-specific inhibitors or
XX chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,
XX cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,
XX gemcitabine or radiation therapy. The enzymatic and antisense nucleic
XX acid molecules are also useful for treating inflammatory disease such as
XX rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,
XX obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft
XX rejection, gene therapy applications, ischaemia/reperfusion injury
XX (central nervous system (CNS) and myocardial), glomerulonephritis,
XX sepsis, allergic airway inflammation, inflammatory bowel disease or
XX infection. This sequence represents the substrate of a novel enzymatic
XX nucleic acid molecule
XX
XX Sequence 17 BP; 5 A; 3 C; 8 G; 0 T; 1 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 76.5%; Pred. No. 4.2e+02;
XX Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 287 CAAGCTGTGTGAAGGACC 303
DB 1 CAGGCTGGGGAAGGAAC 17
RESULT 791
ADA99253/C
ID ADA99253 standard; DNA; 17 BP.
XX
XX ADA99253;
AC
AC 20-NOV-2003 (first entry)
DT
XX
XX Human MDZ3 scanning oligonucleotide SEQ ID 242.
DE
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
XX zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
XX developmental disorder; ss.
XX
XX Homo sapiens.
OS
XX
XX BP1281758-A2.
FN
XX
XX 05-FEB-2003.
PD
XX
XX 30-JUL-2002; 2002EP-00016874.
PF
XX
XX 02-AUG-2001; 2001US-00922181.
PR
XX
XX (AEOM-) AEOMICA INC.
PA

XX Shannon M, Gu Y, Nguyen C;
PI WPI; 2003-423107/40.
XX
XX New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MD23,
PT MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 242; 103pp; English.
XX
XX The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
XX Sequence 17 BP; 4 A; 4 C; 3 G; 6 T; 0 U; 0 Other;
SQ
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 57 GAGGAGTCTCTGCACTA 73
DB 17 GAAAGTCTCTGCACTA 1
RESULT 792
ADA99417
ID ADA99417 standard; DNA; 17 BP.
XX
XX ADA99417;
AC
XX 20-NOV-2003 (first entry)
DE Human MD23 scanning oligonucleotide SEQ ID 406.
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX
XX Homo sapiens.
XX
XX EP1281758-A2.
PN
XX 05-FEB-2003.
PD
XX 30-JUL-2002; 2002EP-00016874.
PF
XX 02-AUG-2001; 2001US-00922181.
PR
XX (AEOM-) AEOMICA INC.
PA
XX Shannon M, Gu Y, Nguyen C;
PI
XX WPI; 2003-423107/40.
DR
XX New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MD23,
PT

PT MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 406; 103pp; English.
XX
XX The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
XX Sequence 17 BP; 2 A; 9 C; 2 G; 4 T; 0 U; 0 Other;
SQ
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 367 TCACCTTCTCTGACCGC 383
DB 1 TCACCTTCTCTGACCGC 17
RESULT 793
ADB00316
ID ADB00316 standard; DNA; 17 BP.
XX
XX ADB00316;
AC
XX 20-NOV-2003 (first entry)
DE Human MD23 scanning oligonucleotide SEQ ID 1302.
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX
XX Homo sapiens.
XX
XX EP1281758-A2.
PN
XX 05-FEB-2003.
PD
XX 30-JUL-2002; 2002EP-00016874.
PF
XX 02-AUG-2001; 2001US-00922181.
PR
XX (AEOM-) AEOMICA INC.
PA
XX Shannon M, Gu Y, Nguyen C;
PI
XX WPI; 2003-423107/40.
DR
XX New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MD23,
PT MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 1302; 103pp; English.
XX
XX The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
XX Sequence 17 BP; 2 A; 9 C; 2 G; 4 T; 0 U; 0 Other;
SQ

CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 6 A; 4 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 291 CTGGTGAAGCACTGAG 307
Db 1 CTGATGAGCACCAGAG 17

RESULT 794
ADA99419
ID ADA99419 standard; DNA; 17 BP.
XX
AC ADA99419;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human MD23 scanning oligonucleotide SEQ ID 408.
XX
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX
OS Homo sapiens.
XX
PN EP1281758-A2.
XX
PD 05-FEB-2003.
XX
PF 30-JUL-2002; 2002EP-00016874.
XX
PR 02-AUG-2001; 2001US-00922181.
XX
PA (AEOM-) AEOMICA INC.
XX
PI Shannon M, Gu Y, Nguyen C;
XX
PS WPI; 2003-423107/40.
XX
PT New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MD23,
PT MD24, MD27 or MD212, e.g. cancer.
XX
PS Example 8; SEQ ID NO 408; 103pp; English.
XX
CC The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX

CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 3 A; 8 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 369 ACITTCCTGACCGCGA 385
Db 1 ACTATCTGCGCGCGA 17

RESULT 795
ADA99415
ID ADA99415 standard; DNA; 17 BP.
XX
AC ADA99415;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human MD23 scanning oligonucleotide SEQ ID 404.
XX
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX
OS Homo sapiens.
XX
PN EP1281758-A2.
XX
PD 05-FEB-2003.
XX
PF 30-JUL-2002; 2002EP-00016874.
XX
PR 02-AUG-2001; 2001US-00922181.
XX
PA (AEOM-) AEOMICA INC.
XX
PI Shannon M, Gu Y, Nguyen C;
XX
PS WPI; 2003-423107/40.
XX
PT New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MD23,
PT MD24, MD27 or MD212, e.g. cancer.
XX
PS Example 8; SEQ ID NO 404; 103pp; English.
XX
CC The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 2 A; 10 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;


```
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 365 CTCACCTTCTGCGACC 381
Db 1 CTCACCTATCTGCCCC 17

RESULT 796
ADA99416
ID ADA99416 standard; DNA; 17 BP.
XX
AC ADA99416;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human MDZ3 scanning oligonucleotide SEQ ID 405.
XX
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX
OS Homo sapiens.
XX
PN EP1281758-A2.
XX
PD 05-FEB-2003.
XX
PF 30-JUL-2002; 2002EP-00016874.
XX
PR 02-AUG-2001; 2001US-00922181.
XX
PA (AEOM-) AEOMICA INC.
XX
PI Shannon M, Gu Y, Nguyen C;
XX
PI WPI; 2003-423107/40.
XX
PT New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MDZ3,
PT MDZ4, MDZ7 or MDZ12, e.g. cancer.
XX
PS Example 8; SEQ ID NO 405; 103pp; English.
XX
CC The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is
CC encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2,
CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome
CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MDZ3,
CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 2 A; 9 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 365 CTCACCTTCTGCGACC 382
Db 1 CTCACCTATCTGCCCC 17

RESULT 797
```

```
ADA99418
ID ADA99418 standard; DNA; 17 BP.
XX
AC ADA99418;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human MDZ3 scanning oligonucleotide SEQ ID 407.
XX
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX
OS Homo sapiens.
XX
PN EP1281758-A2.
XX
PD 05-FEB-2003.
XX
PF 30-JUL-2002; 2002EP-00016874.
XX
PR 02-AUG-2001; 2001US-00922181.
XX
PA (AEOM-) AEOMICA INC.
XX
PI Shannon M, Gu Y, Nguyen C;
XX
PI WPI; 2003-423107/40.
XX
PT New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MDZ3,
PT MDZ4, MDZ7 or MDZ12, e.g. cancer.
XX
PS Example 8; SEQ ID NO 407; 103pp; English.
XX
CC The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is
CC encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2,
CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome
CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MDZ3,
CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 2 A; 9 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 368 CACCTTCTGCGACCGC 384
Db 1 CACTATCTGCCCCG 17

RESULT 798
ADB02421
ID ADB02421 standard; DNA; 17 BP.
XX
AC ADB02421;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human MDZ4 scanning oligonucleotide SEQ ID 3407.
```


XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
 KW zinc finger protein; MD23, MD24, MD27; MD212; chromosome 7q22.1;
 KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
 KW developmental disorder; ss.
 XX Homo sapiens.
 XX EP1281758-A2.
 XX 05-FEB-2003.
 XX 30-JUL-2002; 2002EP-00016674.
 XX 02-AUG-2001; 2001US-00922181.
 XX (AEOM-) AEOMICA INC.
 XX Shannon M, Gu Y, Nguyen C;
 XX WPI; 2003-423107/40.
 XX New zinc finger-containing proteins and nucleic acids, useful in
 PT manufacturing a medicament for treating or preventing a disorder
 PT associated with decreased or increased expression or activity of MD23,
 PT MD24, MD27 or MD212, e.g. cancer.
 XX Example 8; SEQ ID NO 3407; 103pp; English.
 XX The present invention relates to novel human zinc finger-containing
 CC proteins and their coding sequences; MD23, MD24, MD27, MD212. MD23 is
 CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
 CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
 CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
 CC or in manufacturing a medicament for treating or preventing a disorder
 CC associated with decreased or increased expression or activity of MD23,
 CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
 CC acids and proteins are also useful for diagnosing or monitoring a disease
 CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
 CC acids can also be used as probes to detect and characterize gross
 CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
 CC useful in constructing microarrays for measuring gene expression. The
 CC proteins are useful as therapeutic agents for gene therapy or as
 CC vaccines. The present sequence was used to illustrate the invention.
 XX Sequence 17 BP; 3 A; 5 C; 3 G; 6 T; 0 U; 0 Other;
 SQ
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 361 ACTTCCTCCTCCTCTCTG 377
 DB 1 AGTTCTGCTATCTCTG 17
 RESULT 799
 ACDS7498
 ID ACDS7498 standard; RNA; 17 BP.
 XX ACDS7498;
 XX 23-SEP-2003 (first entry)
 XX HCV DNazyme substrate sequence #364.
 DE
 KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
 KW RNA stability; RNA expression; RNA synthesis; antisense;
 KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zincyme;
 KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer I region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;

KW virucide; antiinflammatory; substrate; ss.
 XX Hepatitis C virus.
 XX WO200291494-A1.
 XX 17-OCT-2002.
 XX 26-MAR-2002; 2002WO-US009187.
 XX 26-MAR-2001; 2001US-00817879.
 XX 08-JUN-2001; 2001US-00877478.
 XX 08-JUN-2001; 2001US-0296876P.
 XX 24-OCT-2001; 2001US-0335059P.
 XX 05-DEC-2001; 2001US-0337055P.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (BLAT/) BLATT L.
 XX (MACE/) MACEJAK D.
 XX (MCSW/) MCSWIGGEN J.
 XX (MORR/) MORRISSEY D.
 XX (PAVC/) PAVCO P.
 XX (LEEP/) LEE P.
 XX (DRAP/) DRAPER K.
 XX (ROBE/) ROBERTS E.
 XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
 PI Draper K, Roberts E;
 XX WPI; 2003-229207/22.
 XX Novel compound useful for treating cirrhosis, liver failure,
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus
 PT infection.
 XX Claim 1; Page 240; 387pp; English.
 XX The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC inozymes, zincymes, amberyne, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNazyme or minus strand DNazyme sequences disclosed in the present
 CC invention
 XX Sequence 17 BP; 4 A; 7 C; 6 G; 0 T; 0 U; 0 Other;
 SQ
 Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 272 GGAGCAGGGCGGCACCA 288
 DB 1 GCGCAGGGCGGCACCA 17
 RESULT 800
 ACDS8952
 ID ACDS8952 standard; RNA; 17 BP.
 XX ACDS8952;
 XX

DT 24-SEP-2003 (first entry)
DE HCV DNazyme substrate sequence #1090.
XX
KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
KW RNA stability; RNA expression; RNA synthesis; antisense;
KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;
KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
KW HBV reverse transcriptase; Enhancer I region; viral replication;
KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
KW virucide; antiinflammatory; substrate; ss.
XX
OS Hepatitis C virus.
XX
XX WO200281494-A1.
XX
XX 17-OCT-2002.
XX
XX 26-MAR-2002; 2002WO-US009187.
XX
XX 26-MAR-2001; 2001US-00817879.
XX
XX 08-JUN-2001; 2001US-00877478.
XX
XX 08-JUN-2001; 2001US-0296876P.
XX
XX 24-OCT-2001; 2001US-0335059P.
XX
XX 05-DEC-2001; 2001US-0337055P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX (BLAT/) BLATT L.
XX
XX (MACE/) MACEJAK D.
XX
XX (MCSW/) MCSWIGGEN J.
XX
XX (MORR/) MORRISSEY D.
XX
XX (PAVC/) PAVCO P.
XX
XX (LEEP/) LEE P.
XX
XX (DRAP/) DRAPER K.
XX
XX (ROBE/) ROBERTS E.
XX
XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
XX Draper K, Roberts E;
XX WPI; 2003-229207/22.
XX
XX Novel compound useful for treating cirrhosis, liver failure,
XX hepatocellular carcinoma, or condition associated with hepatitis C virus
XX infection.
XX
XX Claim 1; Page 253; 387pp; English.
XX
XX The present invention relates to nucleic acid molecules which modulate
XX the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
XX Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
XX and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
XX inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
XX are nucleic acid decoy molecules and aptamers that bind to HBV reverse
XX transcriptase and/or HBV reverse transcriptase primer sequences, as well
XX as oligonucleotides that specifically bind the Enhancer I region of HBV
XX DNA. The nucleic acids may be used to modulate the expression of HBV
XX genes and HBV viral replication. Also disclosed is a method for screening
XX compounds and/or potential therapies directed against HBV, and compounds
XX that modulate the expression and/or replication of HCV. The compounds and
XX methods of the invention are useful for the treatment of degenerative and
XX disease states related to HBV and HCV infection, replication and gene
XX expression such as cirrhosis, liver failure, and hepatocellular
XX carcinoma. The present sequence represents a substrate for one of the HCV
XX DNazyme or minus strand DNazyme sequences disclosed in the present
XX invention
XX
SQ Sequence 17 BP; 2 A; 5 C; 7 G; 0 T; 3 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 4.2e+02;
Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

OY 250 CGGGCTCGGCCACGGTG 266
DB 1 CGGGAUCCGUCACCGUG 17
RESULT 801
ACD63717/C
ID ACD63717 standard; RNA; 17 BP.
XX
XX ACD63717;
AC
XX 30-SEP-2003 (first entry)
DT
XX
XX HCV minus strand DNazyme substrate sequence #1188.
XX
XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
XX RNA stability; RNA expression; RNA synthesis; antisense;
XX enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;
XX amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
XX HBV reverse transcriptase; Enhancer I region; viral replication;
XX degenerative; disease state; HBV infection; HCV infection; cirrhosis;
XX liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
XX virucide; antiinflammatory; substrate; ss.
XX
XX Hepatitis C virus.
XX
XX WO200281494-A1.
XX
XX 17-OCT-2002.
XX
XX 26-MAR-2002; 2002WO-US009187.
XX
XX 26-MAR-2001; 2001US-00817879.
XX
XX 08-JUN-2001; 2001US-00877478.
XX
XX 08-JUN-2001; 2001US-0296876P.
XX
XX 24-OCT-2001; 2001US-0335059P.
XX
XX 05-DEC-2001; 2001US-0337055P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX (BLAT/) BLATT L.
XX
XX (MACE/) MACEJAK D.
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XX (MCSW/) MCSWIGGEN J.
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XX (MORR/) MORRISSEY D.
XX
XX (PAVC/) PAVCO P.
XX
XX (LEEP/) LEE P.
XX
XX (DRAP/) DRAPER K.
XX
XX (ROBE/) ROBERTS E.
XX
XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
XX Draper K, Roberts E;
XX WPI; 2003-229207/22.
XX
XX Novel compound useful for treating cirrhosis, liver failure,
XX hepatocellular carcinoma, or condition associated with hepatitis C virus
XX infection.
XX
XX Claim 1; Page 296; 387pp; English.
XX
XX The present invention relates to nucleic acid molecules which modulate
XX the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
XX Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
XX and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
XX inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
XX are nucleic acid decoy molecules and aptamers that bind to HBV reverse
XX transcriptase and/or HBV reverse transcriptase primer sequences, as well
XX as oligonucleotides that specifically bind the Enhancer I region of HBV
XX DNA. The nucleic acids may be used to modulate the expression of HBV
XX genes and HBV viral replication. Also disclosed is a method for screening
XX compounds and/or potential therapies directed against HBV, and compounds
XX that modulate the expression and/or replication of HCV. The compounds and
XX methods of the invention are useful for the treatment of degenerative and
XX disease states related to HBV and HCV infection, replication and gene

CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNzyme or minus strand DNzyme sequences disclosed in the present
 CC invention
 XX
 SQ Sequence 17 BP; 3 A; 7 C; 5 G; 0 T; 2 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 251 GGGCTCGGCACGGTCC 267

DB 17 GGGATCGGTCCACGGTCC 1

RESULT 802

ACD65739/C

ID ACD65739 standard; RNA; 17 BP.

XX AC ACD65739;

XX 30-SEP-2003 (first entry)

XX HCV minus strand DNzyme substrate sequence #2202.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;

XX RNA stability; RNA expression; RNA synthesis; antisense;

XX enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinzyme;

XX amberyne; G-cleaver ribozyme; decoy molecule; aptamer;

XX HBV reverse transcriptase; Enhancer I region; viral replication;

XX degenerative; disease state; HBV infection; HCV infection; cirrhosis;

XX liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;

XX virucide; antiinflammatory; substrate; ss.

XX Hepatitis C virus.

XX WO200281494-A1.

XX 17-OCT-2002.

XX 26-MAR-2002; 2002WO-US009187.

XX 26-MAR-2001; 2001US-00817879.

XX 08-JUN-2001; 2001US-00877478.

XX 08-JUN-2001; 2001US-0296876P.

XX 24-OCT-2001; 2001US-0335059P.

XX 05-DEC-2001; 2001US-0337055P.

XX (RIBO-) RIBOZYME PHARM INC.

XX (BLAT/) BLATT L.

XX (MACE/) MACEJAK D.

XX (MCSW/) MCSWIGGEN J.

XX (MORR/) MORRISSEY D.

XX (PAVC/) PAVCO P.

XX (LEEP/) LEE P.

XX (DRAP/) DRAPER K.

XX (ROBE/) ROBERTS E.

XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;

XX Draper K, Roberts E;

XX WPI; 2003-229207/22.

XX Novel compound useful for treating cirrhosis, liver failure,

XX hepatocellular carcinoma, or condition associated with hepatitis C virus

XX infection.

XX Claim 1; Page 314; 387pp; English.

XX The present invention relates to nucleic acid molecules which modulate

XX the synthesis, expression and/or stability of Hepatitis C virus (HCV) or

XX Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense

XX

CC

CC

CC

CC

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CC

CC

CC

CC

CC and enzymatic nucleic acids such as hammerhead ribozymes, DNzymes,
 CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNzyme or minus strand DNzyme sequences disclosed in the present
 CC invention

SQ Sequence 17 BP; 2 A; 4 C; 6 G; 0 T; 5 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 261 ACGGTGCACCTGGAGCA 277

DB 17 ACCGTGCACCATGAGCA 1

RESULT 803

ACD65393

ID ACD65393 standard; RNA; 17 BP.

XX AC ACD65393;

XX 30-SEP-2003 (first entry)

XX HCV minus strand DNzyme substrate sequence #2024.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;

XX RNA stability; RNA expression; RNA synthesis; antisense;

XX enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinzyme;

XX amberyne; G-cleaver ribozyme; decoy molecule; aptamer;

XX HBV reverse transcriptase; Enhancer I region; viral replication;

XX degenerative; disease state; HBV infection; HCV infection; cirrhosis;

XX liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;

XX virucide; antiinflammatory; substrate; ss.

XX Hepatitis C virus.

XX WO200281494-A1.

XX 17-OCT-2002.

XX 26-MAR-2002; 2002WO-US009187.

XX 26-MAR-2001; 2001US-00817879.

XX 08-JUN-2001; 2001US-00877478.

XX 08-JUN-2001; 2001US-0296876P.

XX 24-OCT-2001; 2001US-0335059P.

XX 05-DEC-2001; 2001US-0337055P.

XX (RIBO-) RIBOZYME PHARM INC.

XX (BLAT/) BLATT L.

XX (MACE/) MACEJAK D.

XX (MCSW/) MCSWIGGEN J.

XX (MORR/) MORRISSEY D.

XX (PAVC/) PAVCO P.

XX (LEEP/) LEE P.

XX (DRAP/) DRAPER K.

XX (ROBE/) ROBERTS E.

XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;

XX Draper K, Roberts E;

XX WPI; 2003-229207/22.

XX Novel compound useful for treating cirrhosis, liver failure,

XX hepatocellular carcinoma, or condition associated with hepatitis C virus

XX infection.

XX Claim 1; Page 314; 387pp; English.

XX The present invention relates to nucleic acid molecules which modulate

XX the synthesis, expression and/or stability of Hepatitis C virus (HCV) or

XX Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense

XX

CC

CC

CC

CC

CC

DR WPI; 2003-229207/22.

XX Novel compound useful for treating cirrhosis, liver failure,

PT hepatocellular carcinoma, or condition associated with hepatitis C virus

PT infection.

XX

XX Claim 1; Page 311; 387pp; English.

XX

CC The present invention relates to nucleic acid molecules which modulate

CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or

CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense

CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,

CC inozymes, zinzymes, amberyms, and G-cleaver ribozymes. Also disclosed

CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse

CC transcriptase and/or HBV reverse transcriptase primer sequences, as well

CC as oligonucleotides that specifically bind the Enhancer I region of HBV

CC DNA. The nucleic acids may be used to modulate the expression of HBV

CC genes and HBV viral replication. Also disclosed is a method for screening

CC compounds and/or potential therapies directed against HBV, and compounds

CC that modulate the expression and/or replication of HCV. The compounds and

CC methods of the invention are useful for the treatment of degenerative and

CC disease states related to HBV and HCV infection, replication and gene

CC expression such as cirrhosis, liver failure, and hepatocellular

CC carcinoma. The present sequence represents a substrate for one of the HCV

CC DNazyme or minus strand DNazyme sequences disclosed in the present

CC invention

XX

SQ Sequence 17 BP; 2 A; 5 C; 5 G; 0 T; 5 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 64.7%; Pred. No. 4.2e+02;

Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 129 ATGCTGGCCGCGCTGGC 145

||:||||| ||:||||

Db 1 AUGCUGGCAUCCUGGC 17

RESULT 804

ACD63946

ID ACD63946 standard; RNA; 17 BP.

XX

AC ACD63946;

XX

DT 30-SEP-2003 (first entry)

XX

DE HCV minus strand DNazyme substrate sequence #1305.

XX

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;

XX RNA stability; RNA expression; RNA synthesis; antisense;

XX enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;

XX amberyms; G-cleaver ribozyme; decoy molecule; aptamer;

XX HBV reverse transcriptase; Enhancer I region; viral replication;

XX degenerative; disease state; HBV infection; HCV infection; cirrhosis;

XX liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;

XX virucide; antiinflammatory; substrate; ss.

XX

OS Hepatitis C virus.

XX

FN WO200281494-A1.

XX

XX 17-OCT-2002.

XX

XX 26-MAR-2002; 2002WO-US009187.

XX

XX 26-MAR-2001; 2001US-00817879.

PR 08-JUN-2001; 2001US-00877478.

PR 08-JUN-2001; 2001US-0296876P.

PR 24-OCT-2001; 2001US-0335059P.

PR 05-DEC-2001; 2001US-0337055P.

XX

XX (RIBO-) RIBOZYME PHARM INC.

PA (BLATT) BLATT L.

PA (MACE/) MACEJAK D.

PA (MCSW/) MCSWIGGEN J.

PA (MORR/) MORRISSEY D.

PA (PVC/) PAVCO P.

PA (LREP/) LEE P.

PA (DRAP/) DRAPER K.

PA (ROBE/) ROBERTS E.

XX

XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;

PI Draper K, Roberts E;

XX WPI; 2003-229207/22.

XX

XX Novel compound useful for treating cirrhosis, liver failure,

PT hepatocellular carcinoma, or condition associated with hepatitis C virus

PT infection.

XX

XX Claim 1; Page 299; 387pp; English.

XX

CC The present invention relates to nucleic acid molecules which modulate

CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or

CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense

CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,

CC inozymes, zinzymes, amberyms, and G-cleaver ribozymes. Also disclosed

CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse

CC transcriptase and/or HBV reverse transcriptase primer sequences, as well

CC as oligonucleotides that specifically bind the Enhancer I region of HBV

CC DNA. The nucleic acids may be used to modulate the expression of HBV

CC genes and HBV viral replication. Also disclosed is a method for screening

CC compounds and/or potential therapies directed against HBV, and compounds

CC that modulate the expression and/or replication of HCV. The compounds and

CC methods of the invention are useful for the treatment of degenerative and

CC disease states related to HBV and HCV infection, replication and gene

CC expression such as cirrhosis, liver failure, and hepatocellular

CC carcinoma. The present sequence represents a substrate for one of the HCV

CC DNazyme or minus strand DNazyme sequences disclosed in the present

CC invention

XX

SQ Sequence 17 BP; 3 A; 4 C; 8 G; 0 T; 2 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 70.6%; Pred. No. 4.2e+02;

Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 311 CGGGACCGCGTGTGG 327

||||||| :|

Db 1 CGGGACCGCAUGGUAG 17

RESULT 805

ACD65050/c

ID ACD65050 standard; RNA; 17 BP.

XX

AC ACD65050;

XX

DT 30-SEP-2003 (first entry)

XX

DE HCV minus strand DNazyme substrate sequence #1849.

XX

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;

XX RNA stability; RNA expression; RNA synthesis; antisense;

XX enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;

XX amberyms; G-cleaver ribozyme; decoy molecule; aptamer;

XX HBV reverse transcriptase; Enhancer I region; viral replication;

XX degenerative; disease state; HBV infection; HCV infection; cirrhosis;

XX liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;

XX virucide; antiinflammatory; substrate; ss.

XX

OS Hepatitis C virus.

XX

FN WO200281494-A1.

XX

XX 17-OCT-2002.

XX PF 26-MAR-2002; 2002WO-US009187.
XX PR 26-MAR-2001; 2001US-00817879.
XX PR 08-JUN-2001; 2001US-00877478.
XX PR 08-JUN-2001; 2001US-0296876P.
XX PR 24-OCT-2001; 2001US-0335059P.
XX PR 05-DEC-2001; 2001US-0337055P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (BLAT/) BLATT L.
XX PA (MACE/) MACEJAK D.
XX PA (MCSW/) MCSWIGGEN J.
XX PA (MORR/) MORRISSEY D.
XX PA (PAVC/) PAVCO P.
XX PA (LEBP/) LEE P.
XX PA (DRAP/) DRAPER K.
XX PA (ROBE/) ROBERTS E.
XX PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
XX PI Draper K, Roberts E;
XX DR WPI; 2003-229207/22.
XX PT Novel compound useful for treating cirrhosis, liver failure,
XX PT hepatocellular carcinoma, or condition associated with hepatitis C virus
XX PT infection.
XX PS Claim 1; Page 308; 387pp; English.
XX CC The present invention relates to nucleic acid molecules which modulate
XX CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
XX CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
XX CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
XX CC inozymes, zinzymes, amberyms, and G-cleaver ribozymes. Also disclosed
XX CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
XX CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
XX CC as oligonucleotides that specifically bind the Enhancer I region of HBV
XX CC DNA. The nucleic acids may be used to modulate the expression of HBV
XX CC genes and HBV viral replication. Also disclosed is a method for screening
XX CC compounds and/or potential therapies directed against HBV, and compounds
XX CC that modulate the expression and/or replication of HCV. The compounds and
XX CC methods of the invention are useful for the treatment of degenerative and
XX CC disease states related to HBV and HCV infection, replication and gene
XX CC expression such as cirrhosis, liver failure, and hepatocellular
XX CC carcinoma. The present sequence represents a substrate for one of the HCV
XX CC DNazyme or minus strand DNazyme sequences disclosed in the present
XX CC invention
XX SQ Sequence 17 BP; 1 A; 6 C; 5 G; 0 T; 5 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 42 GATGGCCACCACTCAGA 58
DB 17 GAGGGCCACCACTCGGA 1
RESULT 806
ACD62939
ID ACD62939 standard; RNA; 17 BP.
XX AC ACD62939;
XX AC ACD62939;
XX DT 24-SEP-2003 (first entry)
XX DE HCV minus strand DNazyme substrate sequence #802.
XX KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
XX KW RNA stability; RNA expression; RNA synthesis; antisense;
XX KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;

KW amberyms; G-cleaver ribozyme; decoy molecule; aptamer;
KW HBV reverse transcriptase; Enhancer I region; viral replication;
KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
KW virucide; antiinflammatory; substrate; ss.
OS Hepatitis C virus.
XX XX
XX PN WO200281494-A1.
XX PD 17-OCT-2002.
XX PF 26-MAR-2002; 2002WO-US009187.
XX XX
XX PR 26-MAR-2001; 2001US-00817879.
XX PR 08-JUN-2001; 2001US-00877478.
XX PR 08-JUN-2001; 2001US-0296876P.
XX PR 24-OCT-2001; 2001US-0335059P.
XX PR 05-DEC-2001; 2001US-0337055P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (BLAT/) BLATT L.
XX PA (MACE/) MACEJAK D.
XX PA (MCSW/) MCSWIGGEN J.
XX PA (MORR/) MORRISSEY D.
XX PA (PAVC/) PAVCO P.
XX PA (LEBP/) LEE P.
XX PA (DRAP/) DRAPER K.
XX PA (ROBE/) ROBERTS E.
XX PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
XX PI Draper K, Roberts E;
XX DR WPI; 2003-229207/22.
XX PT Novel compound useful for treating cirrhosis, liver failure,
XX PT hepatocellular carcinoma, or condition associated with hepatitis C virus
XX PT infection.
XX PS Claim 1; Page 289; 387pp; English.
XX CC The present invention relates to nucleic acid molecules which modulate
XX CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
XX CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
XX CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
XX CC inozymes, zinzymes, amberyms, and G-cleaver ribozymes. Also disclosed
XX CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
XX CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
XX CC as oligonucleotides that specifically bind the Enhancer I region of HBV
XX CC DNA. The nucleic acids may be used to modulate the expression of HBV
XX CC genes and HBV viral replication. Also disclosed is a method for screening
XX CC compounds and/or potential therapies directed against HBV, and compounds
XX CC that modulate the expression and/or replication of HCV. The compounds and
XX CC methods of the invention are useful for the treatment of degenerative and
XX CC disease states related to HBV and HCV infection, replication and gene
XX CC expression such as cirrhosis, liver failure, and hepatocellular
XX CC carcinoma. The present sequence represents a substrate for one of the HCV
XX CC DNazyme or minus strand DNazyme sequences disclosed in the present
XX CC invention
XX SQ Sequence 17 BP; 4 A; 6 C; 7 G; 0 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 383 CGACGACGGCGCCAGA 399
DB 1 CGACGACGGCGCCAGGA 17
RESULT 807
ACD64280/C

ID AC64280 standard; RNA; 17 BP.
 AC AC64280;
 DT 30-SEP-2003 (first entry)
 XX HCV minus strand DNzyme substrate sequence #1471.
 DE
 XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
 KW RNA stability; RNA expression; RNA synthesis; antisense;
 KW enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinzyme;
 KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer I region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
 KW virucide; antiinflammatory; substrate; ss.
 XX
 OS Hepatitis C virus.
 XX
 PN WO200281494-A1.
 XX
 XX 17-OCT-2002.
 PD
 XX
 XX 26-MAR-2002; 2002WO-US009187.
 PF
 XX 26-MAR-2001; 2001US-00817879.
 PR
 XX 08-JUN-2001; 2001US-00877478.
 PR
 XX 08-JUN-2001; 2001US-0296876P.
 PR
 XX 24-OCT-2001; 2001US-0335059P.
 PR
 XX 05-DEC-2001; 2001US-0337055P.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (BLAT/) BLATT L.
 PA (MACE/) MACEJAK D.
 PA (MCSW/) MCSWIGGEN J.
 PA (MORR/) MORRISSEY D.
 PA (PAVC/) PAVCO P.
 PA (LEEP/) LEE P.
 PA (DRAP/) DRAPER K.
 PA (ROBE/) ROBERTS E.
 XX
 XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
 PI Draper K, Roberts E;
 XX WPI; 2003-229207/22.
 DR
 XX Novel compound useful for treating cirrhosis, liver failure,
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus
 PT infection.
 XX
 PS Claim 1; Page 301; 387pp; English.
 CC The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNzymes,
 CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNzyme or minus strand DNzyme sequences disclosed in the present
 CC invention
 XX
 SQ Sequence 17 BP; 3 A; 8 C; 5 G; 0 T; 1 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 140 CCTGGCGGTGAGGCGG 156
 |||||
 Db 17 CCTGGCGGTAGCGTGC 1
 RESULT 808
 ACDS1048
 ID ACDS1048 standard; RNA; 17 BP.
 XX
 AC ACDS1048;
 XX
 XX 23-SEP-2003 (first entry)
 XX
 XX HBV hammerhead ribozyme substrate sequence #361.
 DE
 XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
 KW RNA stability; RNA expression; RNA synthesis; antisense;
 KW enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinzyme;
 KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer I region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
 KW virucide; antiinflammatory; substrate; ss.
 XX
 OS Hepatitis B virus.
 XX
 XX WO200281494-A1.
 XX
 XX 17-OCT-2002.
 PD
 XX
 XX 26-MAR-2002; 2002WO-US009187.
 PF
 XX 26-MAR-2001; 2001US-00817879.
 PR
 XX 08-JUN-2001; 2001US-00877478.
 PR
 XX 08-JUN-2001; 2001US-0296876P.
 PR
 XX 24-OCT-2001; 2001US-0335059P.
 PR
 XX 05-DEC-2001; 2001US-0337055P.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (BLAT/) BLATT L.
 PA (MACE/) MACEJAK D.
 PA (MCSW/) MCSWIGGEN J.
 PA (MORR/) MORRISSEY D.
 PA (PAVC/) PAVCO P.
 PA (LEEP/) LEE P.
 PA (DRAP/) DRAPER K.
 PA (ROBE/) ROBERTS E.
 XX
 XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
 PI Draper K, Roberts E;
 XX WPI; 2003-229207/22.
 DR
 XX Novel compound useful for treating cirrhosis, liver failure,
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus
 PT infection.
 XX
 PS Example 1; Page 143; 387pp; English.
 CC The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNzymes,
 CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening

DE Thermus scotoductus nucleic acid polymerase PCR primer SEQ ID NO:30.
XX nucleic acid polymerase; enzyme; Thermus scotoductus; DNA polymerase;
KW salt tolerance; thermostability; PCR primer; ss.
XX
OS Synthetic.
XX Thermus scotoductus.
XX
FN WO2003066804-A2.
XX
XX 14-AUG-2003.
XX
XX 13-SEP-2002; 2002WO-US029102.
XX
XX 14-SEP-2001; 2001US-0322218P.
PR 30-NOV-2001; 2001US-0334489P.
XX
XX (APPL-) APPLERA CORP.
PA (BOLC/) BOLCHAKOVA E V.
PA (ROZZ/) ROZZELLE J E.
XX
PI Bolchakova EV, Rozzelle JE;
XX
XX WPI; 2003-663590/62.
XX
XX New nucleic acid encoding a Thermus scotoductus strain X-1, ATCC Deposit
PT No. 27978 nucleic acid polymerase, useful for producing nucleic acid
PT polymerases having e.g., improved sequence discrimination or better salt
PT tolerance.
XX
XX Example 1; Page 79; 179pp; English.
XX
XX The present invention describes isolated nucleic acids encoding nucleic
XX acid polymerases from Thermus scotoductus. Also described: (1) an
XX isolated nucleic acid (I) encoding a nucleic acid polymerase from Thermus
XX scotoductus strain X-1, ATCC Deposit No. 27978; (2) an isolated DNA
XX polymerase polypeptide from Thermus scotoductus strain X-1, ATCC Deposit
XX No. 27978; (3) an isolated nucleic acid (II) comprising any of a set of
XX 12 nucleic acid sequences (S1, see ADA50425 to ADA50436) which encodes a
XX nucleic acid polymerase; (4) an isolated nucleic acid (III) encoding a
XX nucleic acid polymerase comprising any of a set of 16 amino acid
XX sequences (S2, see ADA50399 to ADA50404); (5) isolated nucleic acid
XX polymerases comprising any of amino acid sequences S2; (6) vectors
XX comprising (I), (II), or (III), and especially expression vectors in
XX which the nucleic acid polymerase gene is operably linked to a promoter;
XX (7) a host cell comprising an isolated nucleic acid molecule encoding a
XX nucleic acid polymerase from Thermus scotoductus strain X-1, ATCC Deposit
XX No. 27978; (8) a host cell comprising (I) or (II); (9) a kit comprising a
XX container containing a nucleic acid polymerase comprising any of amino
XX acid sequences S2; (10) preparing (M1) a nucleic acid polymerase
XX comprising any of amino acid sequences S2 by incubating a host cell
XX comprising an encoding nucleic acid under conditions sufficient for RNA
XX transcription and translation; (11) a nucleic acid polymerase prepared by
XX M1; (12) synthesizing DNA (M2) comprising contacting a polypeptide
XX sufficient to permit DNA polymerisation; (13) a method (M3) for
XX thermocyclic amplification of nucleic acid; and (14) a method (M4) of
XX primer extension. The nucleic acid is useful for producing nucleic acid
XX polymerases having improved sequence discrimination, better salt
XX tolerance or varying degrees of thermostability with applications e.g. in
XX PCR and DNA sequencing. The present sequence represents a PCR primer for
XX Thermus scotoductus nucleic acid polymerase, which is used in an example
XX from the present invention.

XX Sequence 17 BP; 3 A; 11 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 141 CTGGCGGTGGAGGCCGG 157
DB 17 CTGGAGGTGGAGGTGGG 1

RESULT 812

ACC79937/c
XX ACC79937 standard; DNA; 17 BP.
XX
AC ACC79937;
XX
DT 09-SEP-2003 (first entry)
XX
DE Thermus oshimai nucleic acid polymerase PCR primer SEQ ID NO:30.
XX
KW Thermus oshimai; nucleic acid polymerase; enzyme; DNA sequencing;
KW amplification; reverse transcription; RNA amplification;
KW primer extension; PCR primer; ss.
XX
OS Thermus oshimai.
OS Synthetic.
XX
PN WO2003048310-A2.
XX
PD 12-JUN-2003.
XX
XX 22-NOV-2002; 2002WO-US037764.
XX
XX 30-NOV-2001; 2001US-0334798P.
XX
PA (APPL-) APPLERA CORP.
XX
XX Bolchakova E, Rozzelle J;
XX
XX WPI; 2003-505286/47.
XX
XX New nucleic acid, useful for DNA sequencing or amplification, reverse
PT transcription, RNA amplification or primer extension reactions.
XX
XX Example 1; Page 50; 64pp; English.
XX
XX The present invention describes a nucleic acid (I) encoding a nucleic
XX acid polymerase or a derivative nucleic acid polymerase with a mutation
XX that decreases 5'-3' exonuclease activity or that reduces discrimination
XX against dideoxynucleotide triphosphates. Also described: (1) a vector
XX comprising the nucleic acid (I); (2) a host cell comprising the nucleic
XX acid (I); (3) a nucleic acid polymerase or its derivative; (4) a kit
XX comprising a container containing the nucleic acid polymerase of (3); (5)
XX making the nucleic acid polymerase of (3); (6) synthesising a DNA; (7)
XX thermocyclic amplification of nucleic acid; and (8) primer extending a
XX DNA. The nucleic acid (I) is useful for DNA sequencing or amplifications,
XX reverse transcription, RNA amplification or primer extension reactions.
XX The present sequence represents a PCR primer for Thermus oshimai nucleic
XX acid polymerase, which is used in an example from the present invention

XX Sequence 17 BP; 3 A; 11 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 141 CTGGCGGTGGAGGCCGG 157
DB 17 CTGGAGGTGGAGGTGGG 1

RESULT 813
ABT44053/c
XX ABT44053 standard; DNA; 17 BP.
XX
AC ABT44053;
XX
DT 17-OCT-2003 (first entry)
XX
XX Sequencing PCR primer 41 used during construction of B subtilis RB194.
XX

KW Hyaluronic acid; glycosaminoglycan; hyaluronan synthase; antirheumatic;
 KW UDP-glucose 6-dehydrogenase; UDP-glucose pyrophosphorylase; orthopaedic;
 KW UDP-N-acetylglucosamine; ophthalmological; dermatological; joint surgery;
 KW eye; rheumatology; dermatology; adhesion; development; cell motility;
 KW cancer; angiogenesis; wound healing; ss; PCR; primer.
 XX
 OS Bacillus subtilis subsp. subtilis str. 168.
 OS Synthetic.
 XX WO2003054163-A2.
 FN
 XX
 PD 03-JUL-2003.
 XX
 XX 20-DEC-2002; 2002WO-US041067.
 PF
 XX 21-DEC-2001; 2001US-034264P.
 PR
 XX (NOVO) NOVOZYMES BIOTECH INC.
 PA
 XX Sloma A, Behr R, Widner W, Tang M, Sternberg D, Brown S;
 PI WPI; 2003-559139/52.
 XX
 DR
 XX Producing a hyaluronic acid (e.g. for use in eye and joint surgery,
 XX orthopedics, rheumatology or dermatology) comprises cultivating a
 PT Bacillus host cell and recovering the hyaluronic acid from the
 PT cultivation medium.
 XX
 XX Example 11; Page 52; 218pp; English.
 PS
 XX The invention relates to a novel method which comprises producing a
 CC hyaluronic acid via cultivating a Bacillus host cell under conditions
 CC suitable for production of the hyaluronic acid and subsequently
 CC recovering the hyaluronic acid from the cultivation medium. The most
 CC abundant heteropolysaccharides of the body are the glycosaminoglycans, of
 CC which hyaluronic acid is an example. A number of enzymes are involved in
 CC the biosynthesis of hyaluronic acid including hyaluronan synthase, UDP-
 CC glucose 6-dehydrogenase, UDP-glucose pyrophosphorylase and UDP-N-
 CC acetylglucosamine. The molecules of the invention demonstrate
 CC ophthalmological, antirheumatic and dermatological activities, whilst the
 CC method itself may be useful for producing a hyaluronan in a recombinant
 CC host cell. The hyaluronan generated may be used in eye and joint surgery,
 CC orthopaedics, rheumatology or dermatology and may exhibit further uses
 CC within the fields of adhesion, development, cell motility, cancer,
 CC angiogenesis and wound healing. The current sequence is that of the PCR
 CC primer of the invention which was used during analysis of the enzymes
 CC that play a role in the synthesis of hyaluronic acid
 XX
 SQ Sequence 17 BP; 3 A; 4 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 84 GCAGTGGACATCACCAC 100
 DB 17 GCAGTGGACGTCAACAC 1

RESULT 814
 ADB43719/C
 ID ADB43719 standard; DNA; 17 BP.
 XX
 XX ADB43719;
 AC

DT 18-DEC-2003 (revised)
 DT 04-DEC-2003 (first entry)
 XX

DE Tumour suppression/reversion associated nucleotide #4042.

XX Cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;
 KW primer; probe; tumour suppression; tumour reversion; apoptosis;
 KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;

KW diagnosis.
 XX Homo sapiens.
 OS
 XX WO2003040369-A2.
 FN
 XX 15-MAY-2003.
 PD

XX 17-SEP-2002; 2002WO-IB004219.
 PF

XX 17-SEP-2001; 2001FR-00011981.
 PR

XX (MOLE-) MOLECULAR ENGINES LAB.
 PA

XX Telerman A, Amson R, Tuijnder M;
 PI

XX WPI; 2003-441574/41.
 DR

XX New nucleic acid encoding human prostate membrane-specific antigen,
 PT useful e.g. for treatment of tumors and viral infection, also related
 PT polypeptide and antibodies.
 XX

PS Disclosure; Page 504; 771pp; French.

XX The invention relates to the isolation of 6327 nucleotide sequences,
 CC fragments of at least 15 consecutive nucleotides of these nucleotides, a
 CC sequence having at least 80% identity, after optimal alignment, with the
 CC nucleotides, a sequence that hybridizes under stringent conditions with
 CC the nucleotides, or the complement, or corresponding RNA, of the
 CC nucleotides. The nucleotides are used as probes or primers for detecting,
 CC identifying, quantifying and/or amplifying nucleic acids, as in vitro
 CC sense and antisense sequences, of nucleotides involved in tumour
 CC suppression or reversion, apoptosis and or viral resistance, to produce
 CC recombinant polypeptides, and to prepare transgenic animals, as
 CC experimental models. The nucleotides (also vectors containing them and
 CC cells containing the vectors), the encoded polypeptides and antibodies
 CC (Ab) against the polypeptide are useful for prevention and/or treatment
 CC of viral infections or diseases characterized by development of tumours
 CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).
 CC Analysis of the expression of the nucleotides can be used for diagnosis
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can
 CC also be used to screen for their specific interactive molecules,
 CC potentially useful for treating diseases associated with abnormal
 CC expression of the nucleotides.

XX Sequence 17 BP; 5 A; 4 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 400 AGGTCTTCTACGTGATC 416
 DB 17 AGCTCTCTAGGTGATC 1

RESULT 815
 ADC81646/C
 ID ADC81646 standard; DNA; 17 BP.
 XX

AC ADC81646;

XX 01-JAN-2004 (first entry)

DE Leishmania elongation factor 1-alpha antisense PCR primer SEQ ID NO:20.
 XX elongation factor 1-alpha; EF-1alpha; pathogen; antibacterial; virucide;
 KW fungicide; protozoacide; ss; primer; PCR.

XX Leishmania braziliensis.

XX WO2003037926-A1.

XX

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PD 08-MAY-2003.
XX
PF 01-NOV-2002; 2002WO-CA001689.
XX
XX 01-NOV-2001; 2001CA-02360987.
PR 22-JAN-2002; 2002US-0349339P.
PR 22-JAN-2002; 2002US-0349339P.
PR 05-JUL-2002; 2002US-0393389P.
XX
XX (UYBR-) UNIV BRITISH COLUMBIA.
PA
XX Reiner NE, Tcherkassov A, Nandan D;
PI WPI; 2003-482124/45.
DR
XX
XX Testing of binding specificity of a compound to a conserved protein in a
PT pathogen useful in e.g. treatment of infectious diseases involves
PT comparing binding of the compound to the pathogen and host forms of the
PT protein.
XX
PS Example; SEQ ID NO 20; 64pp; English.
XX
XX The invention relates to a novel method for the testing of a compound for
CC specific binding to a conserved protein in a pathogen. The method
CC involves comparing binding of the compound to the pathogen and host forms
CC of the proteins comprise an insertion/deletion sequence (indel) not
CC present in the other forms of the pathogen and host. The binding to the
CC pathogen form and the absence of or reduced binding of the compound to the
CC host form indicates that the compound is capable of specific binding.
CC A compound of the invention has antibacterial, virucide, fungicide, and
CC protozoacide activity. The method is useful for testing a compound for
CC specific binding to a conserved protein in pathogens (e.g. virus,
CC bacteria, fungi, protozoa). The protein is conserved between a pathogen
CC and a host (e.g. plant or animal including mammal e.g. human). The
CC compound is useful as a diagnostic or therapeutic agent specific for the
CC pathogen form, for the preparation of a moiety for specific binding to
CC pathogen elongation factor 1-alpha, and for diagnosis and treatment of
CC infectious diseases (e.g. bacterial, viral, fungal and protozoal). The
CC present sequence is used in the exemplification of the invention.
XX
SQ Sequence 17 BP; 1 A; 7 C; 3 G; 6 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 26 CGAGGGCTGGGACGAG 42
DB 17 CGAGGGCTGGGACGAG 1
RESULT 816
ADD21033/c
ID ADD21033 standard; DNA; 17 BP.
XX
XX ADD21033;
AC
XX
XX 15-JAN-2004 (first entry)
DT
XX
XX Human GAP_N DNA 17-mer oligo #265.
DE
XX
XX Gene therapy; antibody therapy; modulator of GAPN;
KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX
XX Homo sapiens.
OS
XX
XX WO2003033703-A2.
PN
XX
XX 24-APR-2003.
PD
XX
XX 11-OCT-2002; 2002WO-US032597.
PF
XX
XX 15-OCT-2001; 2001US-0330323P.
PR
XX
XX (AMSH) AMERSHAM BIOSCIENCES SV CORP.

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XX
PA (AMSH) AMERSHAM BIOSCIENCES SV CORP.
XX
XX Zhang J;
XX
XX WPI; 2003-403224/38.
XX
XX Novel human GTP-activator protein for Rab-like GTPase and polynucleotide
PT encoding the protein, useful for diagnosing, treating or preventing
PT disorders associated with increased expression or activity of the
PT protein.
XX
XX Example 2; SEQ ID NO 289; 149pp; English.
PS
XX
XX The invention relates to an isolated human GTP-activator protein for Rab-
CC like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
CC (I), a sequence in which at least 95% of deviations from (I) are
CC conservative substitutions, or a fragment of at least 8 contiguous amino
CC acids of (I). The polypeptide is useful for identifying a specific
CC binding partner for itself, by contacting the polypeptide in vivo to a
CC potential binding partner and determining if the polypeptide binding
CC partner binds to the polypeptide. (I) and a nucleic acid encoding the
CC polypeptide (II) are useful for diagnosing or monitoring a disease caused
CC by altered expression of GAPN, by determining the level of expression of
CC GAPN in a sample of nucleic acids or proteins that derives from a subject
CC suspected to have the disease, alterations from a normal level of
CC expression providing diagnostic and/or monitoring information. (I), (II)
CC or agonist of (I) is useful for treating or preventing a disorder
CC associated with decreased expression or activity of GAPN, and an
CC antagonist of (I) is useful for treating or preventing a disorder
CC associated with increased expression or activity of GAPN (all claimed).
CC (I) is useful as immunogen to raise antibodies that specifically
CC recognize GAPN proteins. (II) is useful to drive in vivo expression of
CC GAPN proteins, and as hybridization probes to detect, characterize and
CC quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
CC genomic and transcript-derived nucleic acid samples. This sequence
CC represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX
SQ Sequence 17 BP; 2 A; 7 C; 7 G; 1 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 254 CTCGGCCACCGTGAC 270
DB 17 CGCGGGCACGGTGCTCC 1
RESULT 817
ADD20883
ID ADD20883 standard; DNA; 17 BP.
XX
XX ADD20883;
AC
XX
XX 15-JAN-2004 (first entry)
DT
XX
XX Human GAP_N DNA 17-mer oligo #115.
DE
XX
XX gene therapy; antibody therapy; modulator of GAPN;
KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX
XX Homo sapiens.
OS
XX
XX WO2003033703-A2.
PN
XX
XX 24-APR-2003.
PD
XX
XX 11-OCT-2002; 2002WO-US032597.
PF
XX
XX 15-OCT-2001; 2001US-0330323P.
PR
XX
XX (AMSH) AMERSHAM BIOSCIENCES SV CORP.

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XX PI Zhang J;
XX DR WPI; 2003-403224/38.
XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide
XX PT encoding the protein, useful for diagnosing, treating or preventing
XX PT disorders associated with increased expression or activity of the
XX PT protein.
XX PS Example 2; SEQ ID NO 139; 149pp; English.
XX CC The invention relates to an isolated human GTP-activator protein for Rab-
XX CC like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
XX CC (I), a sequence in which at least 95% of deviations from (I) are
XX CC conservative substitutions, or a fragment of at least 8 contiguous amino
XX CC acids of (I). The polypeptide is useful for identifying a specific
XX CC binding partner for itself, by contacting the polypeptide in vivo to a
XX CC potential binding partner and determining if the polypeptide binding
XX CC partner binds to the polypeptide. (I) and a nucleic acid encoding the
XX CC polypeptide (II) are useful for diagnosing or monitoring a disease caused
XX CC by altered expression of GAPN, by determining the level of expression of
XX CC GAPN in a sample of nucleic acids or proteins that derives from a subject
XX CC suspected to have the disease, alterations from a normal level of
XX CC expression providing diagnostic and/or monitoring information. (I), (II)
XX CC or agonist of (I) is useful for treating or preventing a disorder
XX CC associated with decreased expression or activity of GAPN, and an
XX CC antagonist of (I) is useful for treating or preventing a disorder
XX CC associated with increased expression or activity of GAPN (all claimed).
XX CC (I) is useful as immunogen to raise antibodies that specifically
XX CC recognize GAPN proteins. (II) is useful to drive in vivo expression of
XX CC GAPN proteins, and as hybridization probes to detect, characterize and
XX CC quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
XX CC genomic and transcript-derived nucleic acid samples. This sequence
XX CC represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX SQ Sequence 17 BP; 3 A; 6 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 377 GGACCGCGACGACGGCG 393
Db 1 GGACTTCGACGACGGCG 17
RESULT 818
ADD20884
ID ADD20884 standard; DNA; 17 BP.
XX AC ADD20884;
XX DT 15-JAN-2004 (first entry)
XX DE Human GAP_N DNA 17-mer oligo #116.
XX KW Gene therapy; antibody therapy; modulator of GAPN;
XX KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX OS Homo sapiens.
XX PN WO2003033703-A2.
XX PD 24-APR-2003.
XX PF 11-OCT-2002; 2002WO-US032597.
XX PR 15-OCT-2001; 2001US-0330323P.
XX PR (AMSH ) AMERSHAM BIOSCIENCES SV CORP.
XX PA Zhang J;
XX PI

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XX DR WPI; 2003-403224/38.
XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide
XX PT encoding the protein, useful for diagnosing, treating or preventing
XX PT disorders associated with increased expression or activity of the
XX PT protein.
XX PS Example 2; SEQ ID NO 140; 149pp; English.
XX CC The invention relates to an isolated human GTP-activator protein for Rab-
XX CC like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
XX CC (I), a sequence in which at least 95% of deviations from (I) are
XX CC conservative substitutions, or a fragment of at least 8 contiguous amino
XX CC acids of (I). The polypeptide is useful for identifying a specific
XX CC binding partner for itself, by contacting the polypeptide in vivo to a
XX CC potential binding partner and determining if the polypeptide binding
XX CC partner binds to the polypeptide. (I) and a nucleic acid encoding the
XX CC polypeptide (II) are useful for diagnosing or monitoring a disease caused
XX CC by altered expression of GAPN, by determining the level of expression of
XX CC GAPN in a sample of nucleic acids or proteins that derives from a subject
XX CC suspected to have the disease, alterations from a normal level of
XX CC expression providing diagnostic and/or monitoring information. (I), (II)
XX CC or agonist of (I) is useful for treating or preventing a disorder
XX CC associated with decreased expression or activity of GAPN, and an
XX CC antagonist of (I) is useful for treating or preventing a disorder
XX CC associated with increased expression or activity of GAPN (all claimed).
XX CC (I) is useful as immunogen to raise antibodies that specifically
XX CC recognize GAPN proteins. (II) is useful to drive in vivo expression of
XX CC GAPN proteins, and as hybridization probes to detect, characterize and
XX CC quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
XX CC genomic and transcript-derived nucleic acid samples. This sequence
XX CC represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX SQ Sequence 17 BP; 3 A; 7 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 378 GACCGCGACGACGGCG 394
Db 1 GACTTCGACGACGGCG 17
RESULT 819
ADD21031/c
ID ADD21031 standard; DNA; 17 BP.
XX AC ADD21031;
XX DT 15-JAN-2004 (first entry)
XX DE Human GAP_N DNA 17-mer oligo #263.
XX KW Gene therapy; antibody therapy; modulator of GAPN;
XX KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX OS Homo sapiens.
XX PN WO2003033703-A2.
XX PD 24-APR-2003.
XX PF 11-OCT-2002; 2002WO-US032597.
XX PR 15-OCT-2001; 2001US-0330323P.
XX PR (AMSH ) AMERSHAM BIOSCIENCES SV CORP.
XX PA Zhang J;
XX PI WPI; 2003-403224/38.

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XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide
PT encoding the protein, useful for diagnosing, treating or preventing
PT disorders associated with increased expression or activity of the
PT protein.
XX
XX Example 2; SEQ ID NO 287; 149pp; English.
XX
XX The invention relates to an isolated human GTP-activator protein for Rab-
XX like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
XX (I), a sequence in which at least 95% of deviations from (I) are
XX conservative substitutions, or a fragment of at least 8 contiguous amino
XX acids of (I). The polypeptide is useful for identifying a specific
XX binding partner for itself, by contacting the polypeptide in vivo to a
XX potential binding partner and determining if the polypeptide binding
XX partner binds to the polypeptide. (I) and a nucleic acid encoding the
XX polypeptide (II) are useful for diagnosing or monitoring a disease caused
XX by altered expression of GAPN, by determining the level of expression of
XX GAPN in a sample of nucleic acids or proteins that derives from a subject
XX suspected to have the disease, alterations from a normal level of
XX expression providing diagnostic and/or monitoring information. (I), (II)
XX or agonist of (I) is useful for treating or preventing a disorder
XX associated with decreased expression or activity of GAPN, and an
XX antagonist of (I) is useful for treating or preventing a disorder
XX associated with increased expression or activity of GAPN (all claimed).
XX (I) is useful as immunogen to raise antibodies that specifically
XX recognize GAPN proteins. (II) is useful to drive in vivo expression of
XX GAPN proteins, and as hybridization probes to detect, characterize and
XX quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
XX genomic and transcript-derived nucleic acid samples. This sequence
XX represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX
SQ Sequence 17 BP; 2 A; 7 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 256 CGGCCACGGTGCTCCAG 272
DB 17 CGGCCACGGTGCTCCAG 1
RESULT 820
ADD20885
ID ADD20885 standard; DNA; 17 BP.
XX AC ADD20885;
XX AC ADD20885;
XX DT 15-JAN-2004 (first entry)
XX DE Human GAP_N DNA 17-mer oligo #117.
XX KW gene therapy; antibody therapy; modulator of GAPN;
XX KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX OS Homo sapiens.
XX OS Homo sapiens.
XX FN WO200303703-A2.
XX PD 24-APR-2003.
XX PF 11-OCT-2002; 2002WO-US032597.
XX PF 15-OCT-2001; 2001US-0330323P.
XX PA (AMSH) AMERSHAM BIOSCIENCES SV CORP.
XX PI Zhang J;
XX PI WPI; 2003-403224/38.
XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide

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PT encoding the protein, useful for diagnosing, treating or preventing
PT disorders associated with increased expression or activity of the
PT protein.
XX
XX Example 2; SEQ ID NO 141; 149pp; English.
XX
XX The invention relates to an isolated human GTP-activator protein for Rab-
XX like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
XX (I), a sequence in which at least 95% of deviations from (I) are
XX conservative substitutions, or a fragment of at least 8 contiguous amino
XX acids of (I). The polypeptide is useful for identifying a specific
XX binding partner for itself, by contacting the polypeptide in vivo to a
XX potential binding partner and determining if the polypeptide binding
XX partner binds to the polypeptide. (I) and a nucleic acid encoding the
XX polypeptide (II) are useful for diagnosing or monitoring a disease caused
XX by altered expression of GAPN, by determining the level of expression of
XX GAPN in a sample of nucleic acids or proteins that derives from a subject
XX suspected to have the disease, alterations from a normal level of
XX expression providing diagnostic and/or monitoring information. (I), (II)
XX or agonist of (I) is useful for treating or preventing a disorder
XX associated with decreased expression or activity of GAPN, and an
XX antagonist of (I) is useful for treating or preventing a disorder
XX associated with increased expression or activity of GAPN (all claimed).
XX (I) is useful as immunogen to raise antibodies that specifically
XX recognize GAPN proteins. (II) is useful to drive in vivo expression of
XX GAPN proteins, and as hybridization probes to detect, characterize and
XX quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
XX genomic and transcript-derived nucleic acid samples. This sequence
XX represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX
SQ Sequence 17 BP; 3 A; 8 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 379 ACCGCGACGACGGCGCC 395
DB 1 ACTTCGACGACGGCGCC 17
RESULT 821
AAQ22266/c
ID AAQ22266 standard; DNA; 18 BP.
XX AC AAQ22266;
XX AC AAQ22266;
XX DT 20-JUL-1992 (first entry)
XX DE Methylphosphonate oligomer #0059 complementary to HSV-1 polyA signal.
XX KW Herpes Simplex Virus; type 1; beta-gene; UL5; DNA dependent ATPase; ss.
XX OS Synthetic.
XX PN WO9203051-A.
XX XX 05-MAR-1992.
XX PF 15-AUG-1990; 90US-00568501.
XX PR 15-AUG-1990; 90US-00568501.
XX PA (GENT-) GENTA INC.
XX PI Roizman B, Maxwell KW;
XX DR WPI; 1992-096516/12.
XX PT New oligomers complementary to viral genome(s) or mRNA transcripts -
XX PT areanti-sense agents which interfere with viral replication of e.g.
XX PT Herpes simplex virus, Epstein-Barr virus etc.
XX

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PS Example 2; Page 20; 33pp; English.

XX This oligomer contains methylphosphonate linkages except for the first 5' linkage which is a phosphate diester bond. The oligomer is complementary to the area around the polyA signal of the HSV-1 UL5 gene. UL5 is one of the essential beta-genes and the protein it encodes forms a complex with two other proteins which functions as a primase and helicase. The protein specified by UL5 has also been shown to act as a DNA dependent ATPase. The oligomer can interfere with expression and function of the gene. See also AAQ22247-Q22283

CC Sequence 18 BP; 2 A; 9 C; 4 G; 3 T; 0 U; 0 Other;

XX Query Match 2.9%; Score 12.2; DB 1; Length 18;

CC Best Local Similarity 82.4%; Pred. No. 4.7e+02;

XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 327 GCGCGGACGACGACGAGG 343

DB 18 GCGACGCGCGATCAGGG 2

RESULT 822

AAQ41689

ID AAQ41689 standard; DNA; 18 BP.

XX AC AAQ41689;

XX 25-MAR-2003 (revised)

DT 24-AUG-1993 (first entry)

XX Probe RAPI4 for Class I HLA DNA allele B region C.

DE Amplification; allelic variants; A; B; C; alleles; exon; diagnosis;

KW tissue typing; forensic testing; susceptibility; PCR; ss.

KW Synthetic.

OS EP540997-A1.

XX 12-MAY-1993.

XX 28-OCT-1992; 92EP-00118396.

XX 05-NOV-1991; 91US-00788113.

PR (HOFF) HOFFMANN LA ROCHE & CO AG F.

PA Bugawan T, Erlich HA;

PI WPI; 1993-153998/19.

XX Rapid HLA class I typing of sample nucleic acid - by amplifying second or third exon sequences then hybridising with set of specific probes, useful e.g. in tissue typing and forensic tests.

XX Disclosure; Page 7; 23pp; English.

XX The HLA Class I DNA type of nucleic acid in a sample may be determined by amplifying any DNA contg. a Class I HLA allele second and/or third exon, hybridising the PCR prod. with probes which only hybridise to exactly complementary sequences and detecting the pattern of hybridisation given, which is indicative of the Class I HLA allele of the sample. The A, B and C alleles are amplified by PCR using pairs of nucleotide primers. Specific primers for exon 2 are DB308 and DB309 and for the third exon are DB311 and DB337. A panel of sequence specific oligonucleotide probes (SSOs) is used to detect the HLA A and B allelic variants not distinguishable by serological, cellular or biochemical methods. The region identifies the polymorphic codons of the second exon of Class I HLA A or B alleles to which the probe hybridises. Region A includes codons 9-12 of exon 2 of both A and B alleles. Region B includes codons 62 and 63 of exon 2 of A alleles. Region C includes codons 65-67 of exon 2 of A alleles and codons 69-71 of B alleles. Region D includes codons 73

CC -77 of exon 2 of A alleles. Specific applications include tissue typing, identification of individuals (e.g. in forensic tests) and detecting susceptibility to disease. See also AAQ41656-94. (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 18 BP; 6 A; 6 C; 5 G; 1 T; 0 U; 0 Other;

XX Query Match 2.9%; Score 12.2; DB 1; Length 18;

CC Best Local Similarity 82.4%; Pred. No. 4.7e+02;

XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 174 TACGAGTCCAAAGGCACA 190

DB 1 TACAGGCCCGAGGCACA 17

RESULT 823

AAQ53969

ID AAQ53969 standard; DNA; 18 BP.

XX AC AAQ53969;

XX 03-AUG-1995 (first entry)

XX Human OTC gene sense primer, binds to bases 21-39.

DE Human; OTC; identification; mutation; amplify; PCR; diagnosis;

KW fluorescence-label; primer; electrophores; genetic disease;

KW single stranded conformation polymorphism; SSCP; detection; ss.

OS Synthetic.

XX JF05317048-A.

XX 03-DEC-1993.

XX 30-SEP-1992; 92JP-00286605.

XX 30-SEP-1991; 91JP-00280835.

XX (SHIO) SHIONOGI & CO LTD.

PA (MATS/) MATSUDA I.

XX WPI; 1994-011017/02.

XX Gene mutation identification for genetic disease diagnosis - includes specific gene or fragment amplification by polymerase chain reaction using fluorescence-labelled primer and electrophoresing.

XX Disclosure; Page 12; 14pp; Japanese.

XX The sequences given in AAQ53956-78 are primers which were used in the method of the invention to detect mutations in the human OTC gene. The gene is amplified by PCR using a fluorescence-labelled primer and the amplified gene or fragment is electrophoresed by single stranded conformation polymorphism (SSCP) and detecting the mutated gene via the primer. This method can be used to detect the presence of mutation in a gene with a precision equal to or higher than that of RFLP labelling methods. This method may be used in the diagnosis of genetic disease

XX Sequence 18 BP; 6 A; 4 C; 6 G; 2 T; 0 U; 0 Other;

XX Query Match 2.9%; Score 12.2; DB 1; Length 18;

CC Best Local Similarity 82.4%; Pred. No. 4.7e+02;

XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 268 ACCTGGAGCAGGCGGC 284

DB 2 ACCTGGAGCAGGAATGC 18

RESULT 824

AAT05082

ID AAT05082 standard; DNA; 18 BP.
 AC AAT05082;
 XX
 XX
 DT 25-MAR-2003 (revised)
 DT 26-FEB-1996 (first entry)
 XX
 XX
 DE HLA-A1 PCR primer (sense, exon 2).
 XX
 XX
 KW MAGE; tumour rejection antigen; cancer; diagnosis;
 KW polymerase chain reaction; PCR; primer; HLA-A1; ss.
 XX
 XX
 OS Synthetic.
 XX
 XX
 PN WO9523874-A1.
 XX
 XX
 PD 08-SEP-1995.
 XX
 XX
 PF 23-FEB-1995; 95WO-US002203.
 XX
 XX
 PR 01-MAR-1994; 94US-00204727.
 PR 10-MAR-1994; 94US-00209172.
 PR 01-SEP-1994; 94US-00298849.
 PR 30-NOV-1994; 94US-00346774.
 XX
 XX
 PA (LUDW-) LUDWIG INST CANCER RES.
 XX
 XX
 PI De Plaen E, Boon-Falleur T, Lethe B, Szikora J, De Smet C;
 PI Chomez P, Gaugler B, Van Den Eynde B, Brasseur F, Patard J;
 PI Weynants P, Marchand M, Van Der Bruggen P;
 XX
 XX
 DR WPI; 1995-320586/41.
 XX
 XX
 DT Determn. of cancerous condition(s) - using a nucleic acid as a primer to
 DT determine expression of a MAGE tumour rejection antigen precursor.
 PT
 PT
 XX
 PS Claim 9; Page 91; 121pp; English.
 XX
 XX
 CC A PCR primer pair (AAT05082-83) correspond to a sense sequence in exon 2
 CC of HLA-A1 antigen and an antisense sequence in exon 3, respectively. The
 CC primers were used in PCR and RT-PCR with tumour rejection antigen
 CC precursor MAGE gene-based primers to detect MAGE gene expression in
 CC tumours and normal tissues. (Updated on 25-MAR-2003 to correct PI field.)
 CC
 XX
 XX
 SQ Sequence 18 BP; 4 A; 6 C; 7 G; 1 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 295 TGGAGGACCTGAGGCC 311
 DB 1 TGGAGGACCTGAGGCC 17
 XX
 XX
 RESULT 825
 AAT94827
 ID AAT94827 standard; DNA; 18 BP.
 XX
 XX
 AC AAT94827;
 XX
 XX
 DT 19-FEB-1998 (first entry)
 XX
 XX
 DE Human leukocyte antigen class I gene URSTO probe 454-471.
 XX
 XX
 KW Human leukocyte antigen; HLA; probe; tissue transplantation; MHC gene;
 KW major histocompatibility complex; paternity test; forensic medicine;
 KW haematological malignancy; inherited disorder; adoptive immunotherapy;
 KW identification; ss.
 XX
 XX
 OS Synthetic.
 OS Homo sapiens.
 PN

PN WO9720197-A2.
 XX
 PD 05-JUN-1997.
 XX
 XX
 PF 29-NOV-1996; 96WO-GB002959.
 XX
 XX
 PR 29-NOV-1995; 95GB-00024381.
 XX
 XX
 PA (NOLA-) NOLAN BONE MARROW TRUST ANTHONY.
 XX
 XX
 PI Arguello R, Avakian H, Madrigal A;
 XX
 XX
 DR WPI; 1997-310717/28.
 XX
 XX
 PT Identifying unknown allele(s) of a polyallelic gene using panel of
 PT probes each recognising a sequence motif present in some allele(s) -
 PT useful for donor matching in tissue transplantation.
 XX
 XX
 PS Claim 5; Page 19; 64pp; English.
 XX
 XX
 CC A novel method has been developed for identifying an unknown allele of a
 CC polyallelic gene. The method involves: (a) contacting the unknown allele
 CC with a panel of probes, each of which recognises a sequence motif that is
 CC present in some alleles of the polyallelic gene but not in others; (b)
 CC observing which probes recognise the unknown allele so as to obtain a
 CC fingerprint of the unknown allele; and (c) comparing the fingerprint with
 CC fingerprints of known alleles. The present sequence represents a
 CC specifically claimed probe for use in the method where the polyallelic
 CC gene is a human leukocyte antigen class I gene. The method can be used
 CC for genes such as mammalian MHC genes, specifically the HLA class I and
 CC II genes, the T cell receptor genes in mammals, TAP, LMP, ras,
 CC nonclassical HLA class I genes, human complement factor genes C4 and C2,
 CC Bf in the HLA complex, and genes located in mitochondrial DNA, bacterial
 CC chromosomes and viral DNA. The method is particularly useful for matching
 CC the alleles of the HLA genes in a prospective donor and a prospective
 CC recipient in tissue or organ transplantations. The method can also be
 CC used in paternity testing, in forensic medicine, as a follow up technique
 CC in treatment of haematological malignancies or inherited disorders, in
 CC adoptive immunotherapy and in identification of bacteria and viruses.
 CC The method can provide for the identification of alleles of the
 CC polyallelic genes using a limited number of selected recurring motif
 CC probes
 XX
 XX
 SQ Sequence 18 BP; 2 A; 6 C; 7 G; 3 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 298 AGGACCTGAGCCCCGG 314
 DB 2 AGGACCTGCGCTCTGG 18
 XX
 XX
 RESULT 826
 AAX75558
 ID AAX75558 standard; RNA; 18 BP.
 XX
 XX
 AC AAX75558;
 XX
 XX
 DT 28-JUL-1999 (first entry)
 XX
 XX
 DE Mouse flt-1 VEGF receptor hairpin ribozyme substrate #17.
 XX
 XX
 KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
 KW XDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
 KW foetal liver kinase 1; ss.
 XX
 XX
 OS Mus sp.
 OS
 PN WO9715662-A2.

XX 01-MAY-1997.
 XX 25-OCT-1996; 96WO-US017480.
 XX 26-OCT-1995; 95US-0005974P.
 XX 11-JAN-1996; 96US-00584040.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (CHIR) CHIRON CORP.
 XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
 XX WPI; 1997-259017/23.
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
 XX stability - useful for treating e.g. tumour angiogenesis, psoriasis,
 XX rheumatoid arthritis, etc., in a human patient.
 XX Claim 4; Page 185; 218pp; English.
 XX The present invention describes nucleic acid molecules which modulate the
 XX synthesis, expression and/or stability of a mRNA encoding 1 or more
 XX receptors of vascular endothelial growth factor (VEGF). A patient
 XX (preferably human) having a condition associated with the level of the
 XX fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
 XX receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
 XX angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
 XX treated by administering the nucleic acid molecule or the expression
 XX vector to the patient. AAX6275 to AAX7572 represent specific examples
 XX of nucleic acid molecules from the present invention
 XX Sequence 18 BP; 3 A; 6 C; 6 G; 0 T; 3 U; 0 Other;
 XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
 XX Best Local Similarity 70.6%; Pred. No. 4.7e+02;
 XX Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
 QY 238 GAGGCTGCTTCCCGGC 254
 DB 2 GAGACGCGUCCACGGGC 18
 RESULT 827
 AAX62760
 ID AAX62760 standard; RNA; 18 BP.
 AC AAX62760;
 XX 16-JUL-1999 (first entry)
 DE Granule bound starch synthase hairpin substrate SEQ ID NO:635.
 XX Maize; corn; Zea mays; delta-9 desaturase; GBSS; target; substrate;
 XX granule bound starch synthase; hammerhead ribozyme; hairpin ribozyme;
 XX modulation; gene expression; transgenic plant; cleavage; canola plant;
 XX caffeine synthesis; coffee plant; nicotine production; tobacco;
 XX fruit ripening; flower pigmentation; lignin production; ss.
 XX Zea mays.
 XX WO9710328-A2.
 XX 20-MAR-1997.
 XX 12-JUL-1996; 96WO-US011689.
 XX 13-JUL-1995; 95US-0001135P.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (DOWC) DOWELANCO.
 XX Zwick MG, Edington BE, Mcswiggen JA, Merlo PAO, Guo L, Skokut TA;
 PI Young SA, Folkerts O, Merlo DJ;
 XX WPI; 1997-202224/18.
 XX Ribozyme which modulates plant gene expression - preferably modulates
 XX expression of DELTA-9 desaturase or granule bound starch synthase in
 XX maize or canola.
 XX Claim 42; Page 84; 155pp; English.
 XX The present invention describes an enzymatic nucleic acid molecule (I)
 XX with RNA cleaving activity, which modulates the expression of a plant
 XX gene. Also described is a gene comprising a cDNA sequence encoding maize
 XX Delta-9 desaturase. (I) can be used to modulate expression of a gene,
 XX preferably Delta-9 desaturase or a granule bound starch synthase (GBSS)
 XX gene, in a plant (preferably a maize or canola plant). (I) can be used to
 XX modulate caffeine synthesis in a coffee plant, nicotine production in a
 XX tobacco plant, fruit ripening processes in an apple, tomato, pear, plum
 XX or peach plant, flower pigmentation in a rose, petunia, chrysanthemum or
 XX marigold plant or lignin production in a tobacco, aspen, poplar or pine
 XX plant
 XX Sequence 18 BP; 2 A; 6 C; 7 G; 0 T; 3 U; 0 Other;
 XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
 XX Best Local Similarity 70.6%; Pred. No. 4.7e+02;
 XX Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
 QY 121 AGTACGGCATGCTGGCC 137
 DB 2 AGTUCGGCCUCCAGGCC 18
 RESULT 828
 AAV60768
 ID AAV60768 standard; DNA; 18 BP.
 AC AAV60768;
 XX 25-MAR-2003 (revised)
 XX 08-DEC-1998 (first entry)
 XX HIV-1 strain YBF30 gag gene primer GAG Y S1.1.
 XX HIV-1 strain YBF30; antibody; oligonucleotide; diagnosis; immunisation;
 XX infection; typing; gag; PCR primer; amplification; ss.
 XX Synthetic.
 XX Human immunodeficiency virus 1.
 XX FR2756843-A1.
 XX 12-JUN-1998.
 XX 09-DEC-1996; 96FR-00015087.
 XX 09-DEC-1996; 96FR-00015087.
 XX (INRM) INSERM INST NAT SANTE & RECH MEDICALE.
 XX (ASSI-) ASSISTANCE PUBLIQUE HOPITAUX PARIS.
 XX (INSP) INST PASTEUR.
 XX Mauciere P, Lousaert AI, Simon F, Saragosti S, Barre SF;
 XX WPI; 1998-336114/30.
 XX Non-M, non-O HIV-1 strain YBF30 - useful for diagnosis and immunisation.
 XX Claim 3; Fig 1; 85pp; French.
 XX This sequence represents a primer targeted to the gag gene of the non-M
 XX (major), non-O (Outlier) HIV-1 strain YBF30 (CNCM I-1753), isolated from
 XX the Cameroon. The HIV strain (see AAV60751 for complete genome),

XX 01-MAY-1997.
 XX 25-OCT-1996; 96WO-US017480.
 XX 26-OCT-1995; 95US-0005974P.
 XX 11-JAN-1996; 96US-00584040.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (CHIR) CHIRON CORP.
 XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
 XX WPI; 1997-259017/23.
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
 XX stability - useful for treating e.g. tumour angiogenesis, psoriasis,
 XX rheumatoid arthritis, etc., in a human patient.
 XX Claim 4; Page 185; 218pp; English.
 XX The present invention describes nucleic acid molecules which modulate the
 XX synthesis, expression and/or stability of a mRNA encoding 1 or more
 XX receptors of vascular endothelial growth factor (VEGF). A patient
 XX (preferably human) having a condition associated with the level of the
 XX fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
 XX receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
 XX angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
 XX treated by administering the nucleic acid molecule or the expression
 XX vector to the patient. AAX6275 to AAX7572 represent specific examples
 XX of nucleic acid molecules from the present invention
 XX Sequence 18 BP; 3 A; 6 C; 6 G; 0 T; 3 U; 0 Other;
 XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
 XX Best Local Similarity 70.6%; Pred. No. 4.7e+02;
 XX Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
 QY 238 GAGGCTGCTTCCCGGC 254
 DB 2 GAGACGCGUCCACGGGC 18
 RESULT 827
 AAX62760
 ID AAX62760 standard; RNA; 18 BP.
 AC AAX62760;
 XX 16-JUL-1999 (first entry)
 DE Granule bound starch synthase hairpin substrate SEQ ID NO:635.
 XX Maize; corn; Zea mays; delta-9 desaturase; GBSS; target; substrate;
 XX granule bound starch synthase; hammerhead ribozyme; hairpin ribozyme;
 XX modulation; gene expression; transgenic plant; cleavage; canola plant;
 XX caffeine synthesis; coffee plant; nicotine production; tobacco;
 XX fruit ripening; flower pigmentation; lignin production; ss.
 XX Zea mays.
 XX WO9710328-A2.
 XX 20-MAR-1997.
 XX 12-JUL-1996; 96WO-US011689.
 XX 13-JUL-1995; 95US-0001135P.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (DOWC) DOWELANCO.
 XX Zwick MG, Edington BE, Mcswiggen JA, Merlo PAO, Guo L, Skokut TA;
 PI Young SA, Folkerts O, Merlo DJ;
 XX WPI; 1997-202224/18.
 XX Ribozyme which modulates plant gene expression - preferably modulates
 XX expression of DELTA-9 desaturase or granule bound starch synthase in
 XX maize or canola.
 XX Claim 42; Page 84; 155pp; English.
 XX The present invention describes an enzymatic nucleic acid molecule (I)
 XX with RNA cleaving activity, which modulates the expression of a plant
 XX gene. Also described is a gene comprising a cDNA sequence encoding maize
 XX Delta-9 desaturase. (I) can be used to modulate expression of a gene,
 XX preferably Delta-9 desaturase or a granule bound starch synthase (GBSS)
 XX gene, in a plant (preferably a maize or canola plant). (I) can be used to
 XX modulate caffeine synthesis in a coffee plant, nicotine production in a
 XX tobacco plant, fruit ripening processes in an apple, tomato, pear, plum
 XX or peach plant, flower pigmentation in a rose, petunia, chrysanthemum or
 XX marigold plant or lignin production in a tobacco, aspen, poplar or pine
 XX plant
 XX Sequence 18 BP; 2 A; 6 C; 7 G; 0 T; 3 U; 0 Other;
 XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
 XX Best Local Similarity 70.6%; Pred. No. 4.7e+02;
 XX Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
 QY 121 AGTACGGCATGCTGGCC 137
 DB 2 AGTUCGGCCUCCAGGCC 18
 RESULT 828
 AAV60768
 ID AAV60768 standard; DNA; 18 BP.
 AC AAV60768;
 XX 25-MAR-2003 (revised)
 XX 08-DEC-1998 (first entry)
 XX HIV-1 strain YBF30 gag gene primer GAG Y S1.1.
 XX HIV-1 strain YBF30; antibody; oligonucleotide; diagnosis; immunisation;
 XX infection; typing; gag; PCR primer; amplification; ss.
 XX Synthetic.
 XX Human immunodeficiency virus 1.
 XX FR2756843-A1.
 XX 12-JUN-1998.
 XX 09-DEC-1996; 96FR-00015087.
 XX 09-DEC-1996; 96FR-00015087.
 XX (INRM) INSERM INST NAT SANTE & RECH MEDICALE.
 XX (ASSI-) ASSISTANCE PUBLIQUE HOPITAUX PARIS.
 XX (INSP) INST PASTEUR.
 XX Mauciere P, Lousaert AI, Simon F, Saragosti S, Barre SF;
 XX WPI; 1998-336114/30.
 XX Non-M, non-O HIV-1 strain YBF30 - useful for diagnosis and immunisation.
 XX Claim 3; Fig 1; 85pp; French.
 XX This sequence represents a primer targeted to the gag gene of the non-M
 XX (major), non-O (Outlier) HIV-1 strain YBF30 (CNCM I-1753), isolated from
 XX the Cameroon. The HIV strain (see AAV60751 for complete genome),

CC peptides, antibodies and oligonucleotides derived from it (see AAV60752-
CC V60798 and AAV68473-W68492) are used for diagnosis of or immunisation
CC against non-M, non-O HIV-1 infections. The oligonucleotides, peptides and
CC antibodies can also be used for typing HIV strains. (Updated on 25-MAR-
CC 2003 to correct PI field.)
XX
SQ Sequence 18 BP; 6 A; 5 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 55 CAGAGGAGTCTCTGCAC 71
DB 2 CAGAGACTCTCTGTAC 18

RESULT 829
AAV34526/C
ID AAV34526 standard; DNA; 18 BP.

XX AC AAV34526;
XX
DT 20-AUG-1998 (first entry)
XX Chemokine receptor CXCR4 amplifying RT-PCR primer 2.
DE
XX Chemokine receptor; gp120; fusion protein; HIV; screening; AIDS;
KW CD4 binding site; RT-PCR primer; ss.
KW
XX Synthetic.
OS Homo sapiens.

XX WO9815569-A1.
XX
PD 16-APR-1998.
XX
PF 08-OCT-1997; 97WO-US018397.
XX

XX 09-OCT-1996; 96US-0027931P.
XX
XX (DAND) DANA FARMER CANCER INST INC.
PA (LEUK-) LEUKOSITE INC.
PA (CHIL-) CHILDRENS MEDICAL CENT.

XX Sodroski J, Newman W, Wu L, Gerard N, Gerard C;
XX WPI; 1998-240778/21.
XX

XX Derivatives of gp120 containing modified chemokine receptor binding site
PT - and complexes with soluble CD40, for inhibiting infectivity of human
PT immune deficiency virus and to screen for inhibitors.
XX Example; Page 53; 92pp; English.

XX This primer is used for the RT-PCR amplification of a chemokine receptor
CC CXCR4. The invention provides gp120 derivative having a conformational,
CC discontinuous chemokine receptor binding site defined by amino acids
CC residues present in the gp120 constant regions C2, C3 and C4, and the
CC variable region V3, and its conformation is similar to that of the
CC receptor binding site of wild-type gp120 complexed to CD4. Exposure of
CC the chemokine receptor binding site is increased by having at least part
CC of a variable or constant region of wild-type gp120 removed. A stabilised
CC complex of gp120 CD4 binding site with a soluble CD4 molecule is used to
CC inhibit infectivity of human immune deficiency virus (HIV); labelled
CC gp120 derivatives are also used to screen for inhibitors of HIV
CC infectivity. The gp120 derivatives are used for diagnosing susceptibility
CC to HIV infection from increased levels of the chemokine receptors (at the
CC protein or nucleic acid levels). Transgenic animals expressing CD4 and
CC chemokine receptor are used as models for studying development of AIDS or
CC effect/safety of therapeutic agents

XX Sequence 18 BP; 4 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 343 GCCGGCTGCTCTACAGC 359
DB 17 GCTGCTGCTGCTACAC 1

RESULT 830
AAV46248/C
ID AAV46248 standard; DNA; 18 BP.

XX AC AAV46248;
XX
DT 16-OCT-1998 (first entry)
XX Human HLA-A primer #152.
DE
XX Histocompatibility locus antigen; HLA-A class I; human; class typing;
KW donor; host; tissue transplantation; primer; ss.
KW
XX Synthetic.

XX OS Homo sapiens.
XX WO9826091-A2.
XX 18-JUN-1998.
XX

XX PF 12-DEC-1997; 97WO-CA000955.
XX
XX PR 12-DEC-1996; 96US-00766189.
XX
XX (VISI-) VISIBLE GENETICS INC.

XX PI Blaszczak RH, Leushner J;
XX WPI; 1998-348544/30.
XX

XX HLA Class I typing - by primer-based amplification of target DNA using
PT group-specific untranslated region primer pair.
XX Claim 8; Page 138; 185pp; English.

XX AAV46054 and AAV46200-V46264 are primers used in isolating human
CC histocompatibility locus antigen (HLA-A) Class I alleles which are used
CC in a novel method of HLA Class I typing. The method involves combining a
CC group-specific untranslated region primer pair with a target DNA to allow
CC primer-based amplification of the DNA, and determining whether a nucleic
CC acid product is produced by the amplification. The ability of the primer
CC pair to produce a product is associated with a particular HLA class I gene.
CC The methods can be used for typing the 3 classical HLA class I genes
CC (comprising the loci HLA-A, HLA-B, and HLA-C) in e.g. donors and hosts
CC for tissue transplantation. The initial group specific amplification
CC allows a PCR based separation of haplotypes in 95% of patient samples.
XX The subsequent sequencing can provide for high-resolution typing

XX Sequence 18 BP; 1 A; 7 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 214 AGAAGCTCGGTGGCGGCC 230
DB 18 ACAAGTGGAGCGGCC 2

RESULT 831
AAV39316/C
ID AAV39316 standard; cDNA; 18 BP.
XX

AAV39316;
 16-SEP-1998 (first entry)
 Human RAD54 mutation detecting PCR primer SEQ ID NO:24.
 Human; RAD54; cancer; xeroderma pigmentosum; Bloom syndrome;
 Werner's syndrome; ATR-X; diagnosis; detection; SNF2 superfamily;
 X-linked mental retardation with alpha-thalassemia syndrome; tumour;
 gene therapy; PCR primer; ss.
 Synthetic.
 Homo sapiens.
 EP844305-A2.
 27-MAY-1998.
 10-NOV-1997; 97EP-00308998.
 13-NOV-1996; 96US-0030676P.
 (SMK) SMITHKLINE BEECHAM CORP.
 (UYJE-) UNIV JEFFERSON THOMAS.
 Croce CM, Fishel RA, Rasio D, Robbins DJ;
 WPT; 1998-274189/25.
 Human hRAD54 DNA and polypeptide - and agonists, antibodies, antagonists,
 etc.
 Claim 18; Page 39; 64pp; English.
 The present sequence represents a PCR primer for use in a method of the
 invention for determining the genetic predisposition to cancer in an
 individual by detecting hRAD54 mutations in a sample. hRAD54 is a gene
 thought to be present in tumours that display allelic imbalance at 1p32,
 the chromosomal band identified as one of four minimal regions of
 chromosome 1 deletion in breast carcinomas. hRAD54 is useful for
 production of proteins, inter alia, that have been identified as novel
 hRAD54 by homology between the amino acid sequence given in AAV62186 and
 known amino acid sequences such as yeast RAD54. hRAD54 proteins are used
 in the treatment of cancer, including Xeroderma Pigmentosum and Bloom
 syndrome, Werner's syndrome and X-linked mental retardation with alpha-
 thalassemia syndrome and breast cancer. hRAD54 polynucleotides are also
 useful for detecting complementary nucleotides for use as a diagnostic
 agent, especially useful for diagnosis of disease or susceptibility to
 diseases. hRAD54 polynucleotide, proteins, agonists and antagonists which
 are proteins are useful in gene therapy

Sequence 18 BP; 3 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 286 CCAAGCTGTGTAAGGAC 302
 DB 18 CCAGCCTGTGTAAGAAC 2

RESULT 832
 AAV60916/c
 ID AAV60916 standard; DNA; 18 BP.
 AC AAV60916;
 XX
 DT 11-JAN-1999 (first entry)
 DE Angiogenin antisense oligonucleotide JF12S.
 XX
 KW Angiogenin; antisense; inhibitor; cancer; metastasis; angiogenesis;

therapy; diagnosis; ss.
 Synthetic.
 Key Location/Qualifiers
 modified_base 1..18
 /tag= a
 /note= "phosphorothioate linkages"
 PN WO9842722-A1.
 PD 01-OCT-1998.
 PP 20-MAR-1998; 98WO-US005651.
 PR 21-MAR-1997; 97US-0041182P.
 XX (HARD) HARVARD COLLEGE.
 PA Pett JW, Olson KA;
 PI WPI; 1998-531944/45.
 DR New oligonucleotide(s) that inhibit expression of angiogenin - for
 PT treatment of tumours and metastases, or other conditions involving
 PT abnormal angiogenesis.
 PS Claim 10; Page 38; 71pp; English.
 CC Antisense phosphorothioate oligonucleotide JF10S encompasses the AUG
 CC initiation codon of the human angiogenin gene (see AAV60918). JF2S, and
 CC other claimed antisense oligonucleotides (see AAV60911-17) with base
 CC sequences complementary to a target region of the angiogenin gene, are
 CC able to inhibit expression of angiogenin. They are used in claimed
 CC methods to decrease production of angiogenin, particularly to reduce the
 CC size of tumours associated with angiogenesis, to inhibit metastases,
 CC establishment of tumour cells or growth of tumours and, when labelled, to
 CC detect angiogenin for diagnosis of conditions associated with abnormal
 CC angiogenesis. They can also be used to treat a wide range of non-cancer
 CC conditions that involve angiogenesis, e.g. age-related macular
 CC degeneration, diabetic retinopathy, bacterial or fungal ulcers,
 CC rheumatoid arthritis, Paget's disease, Crohn's disease, haemangioma and
 CC many others listed
 XX Sequence 18 BP; 4 A; 9 C; 3 G; 2 T; 0 U; 0 Other;
 SQ Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 292 TGGTGAGGACCTGAGC 308
 DB 17 TGGTGATGGCCTGGGC 1

RESULT 833
 AA211707/c
 ID AA211707 standard; RNA; 18 BP.
 XX
 AC AA211707;
 XX
 DT 02-NOV-1999 (first entry)
 DE Hepatitis C virus antisense DNA 25 - binds to HCV genome bases 330-347.
 XX
 KW Antisense; oligonucleotide; hepatitis C virus; antiviral therapy;
 KW detection; diagnosis; treatment; translation inhibition;
 KW replication inhibition; transcription inhibition; ss.
 XX
 OS Synthetic.
 OS Hepatitis C virus.
 XX
 PN WO9929350-A1.

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XX 17-JUN-1999.
PD
XX
XX 08-DEC-1998; 98WO-US026040.
PF
XX
XX 10-DEC-1997; 97US-00988321.
PR
XX
XX (ISIS-) ISIS PHARM INC.
PA
XX
XX Anderson KP, Hanecak RC, Nozaki C;
PI
XX
XX WPI; 1999-493767/41.
DR
XX
XX New antisense oligonucleotides for treatment of Hepatitis C virus
PT infections.
PT
XX
XX Example 3; Page 35; 61pp; English.
PS
XX
XX This sequence represents a specific example of an antisense
CC oligonucleotide designed to be capable of hybridising to HCV genomic RNA.
CC These oligonucleotides (AAZ08988-209005 and AAZ11701-211719) are 10-20
CC bases long and are targeted to stretches of viral genome which include
CC the polyprotein translation initiation codon. They inhibit the function
CC of viral RNA by interfering with its replication, transcription into
CC mRNA, translation into protein and packaging into viral particles,
CC resulting in failure of all or a portion of the normal life cycle of the
CC virus. In vivo studies in a murine model have found that a preferred
CC antisense oligonucleotide, AAZ08993, is able to reduce HCV gene
CC expression by around 50% compared with a control oligonucleotide
CC (AAZ11718). The oligonucleotides are useful for the prevention and/or
CC treatment of hepatitis C-associated disease. Oligonucleotides are also
CC useful for detection and diagnosis of hepatitis C virus-associated
CC diseases. The specificity of the oligonucleotides enables more effective
CC prevention and treatment of HCV-associated diseases. They can also be
CC used to differentiate between HCV-derived hepatitis and hepatitis caused
CC by other agents
XX
SQ Sequence 18 BP; 2 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 261 ACGGTGCACCTGGAGCA 277
DB 18 ACGGTGCACCATGAGCA 2
RESULT 834
AAZ11716/c
ID AAZ11716 standard; RNA; 18 BP.
XX
XX AAZ11716;
AC
XX
XX 02-NOV-1999 (first entry)
DT
XX
XX Hepatitis C virus antisense DNA 34 - binds to HCV genome bases 331-348.
DE
XX
XX Antisense; oligonucleotide; hepatitis C virus; antiviral therapy;
KW detection; diagnosis; treatment; translation inhibition;
KW replication inhibition; transcription inhibition; ss.
XX
XX Synthetic.
OS
XX Hepatitis C virus.
OS
XX
XX WO9929350-A1.
PN
XX
XX 17-JUN-1999.
PD
XX
XX 08-DEC-1998; 98WO-US026040.
PF
XX
XX 10-DEC-1997; 97US-00988321.
PR
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PA (ISIS-) ISIS PHARM INC.
XX
XX Anderson KP, Hanecak RC, Nozaki C;
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XX
XX WPI; 1999-493767/41.
DR
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XX New antisense oligonucleotides for treatment of Hepatitis C virus
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XX Example 3; Page 35; 61pp; English.
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XX This sequence represents a specific example of an antisense
CC oligonucleotide designed to be capable of hybridising to HCV genomic RNA.
CC These oligonucleotides (AAZ08988-209005 and AAZ11701-211719) are 10-20
CC bases long and are targeted to stretches of viral genome which include
CC the polyprotein translation initiation codon. They inhibit the function
CC of viral RNA by interfering with its replication, transcription into
CC mRNA, translation into protein and packaging into viral particles,
CC resulting in failure of all or a portion of the normal life cycle of the
CC virus. In vivo studies in a murine model have found that a preferred
CC antisense oligonucleotide, AAZ08993, is able to reduce HCV gene
CC expression by around 50% compared with a control oligonucleotide
CC (AAZ11718). The oligonucleotides are useful for the prevention and/or
CC treatment of hepatitis C-associated disease. Oligonucleotides are also
CC useful for detection and diagnosis of hepatitis C virus-associated
CC diseases. The specificity of the oligonucleotides enables more effective
CC prevention and treatment of HCV-associated diseases. They can also be
CC used to differentiate between HCV-derived hepatitis and hepatitis caused
CC by other agents
XX
SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 261 ACGGTGCACCTGGAGCA 277
DB 17 ACGGTGCACCATGAGCA 1
RESULT 835
AAZ34321/c
ID AAZ34321 standard; DNA; 18 BP.
XX
XX AAZ34321;
AC
XX
XX 07-DEC-1999 (first entry)
DT
XX
XX Human PRO298 PCR forward primer 3.
DE
XX
XX Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;
KW probe; blood coagulation disorder; cancer; cellular adhesion disorder;
KW secreted protein; transmembrane protein; ss.
XX
XX Synthetic.
OS
XX Homo sapiens.
OS
XX
XX WO9946281-A2.
PN
XX
XX 16-SEP-1999.
PD
XX
XX 08-MAR-1999; 99WO-US005028.
PF
XX
XX 10-MAR-1998; 98US-0077450P.
PR
XX
XX 11-MAR-1998; 98US-0077632P.
PR
XX
XX 11-MAR-1998; 98US-0077641P.
PR
XX
XX 12-MAR-1998; 98US-0077649P.
PR
XX
XX 13-MAR-1998; 98US-0077791P.
PR
XX
XX 17-MAR-1998; 98US-0078004P.
PR
XX
XX 20-MAR-1998; 98US-00040220.
PR
XX
XX 20-MAR-1998; 98US-0078886P.
PR
XX
XX 20-MAR-1998; 98US-0078910P.
PR
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PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082566P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082767P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083336P.
PR 28-APR-1998; 98US-0083342P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083546P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 06-MAY-1998; 98US-0084415P.
PR 07-MAY-1998; 98US-0084596P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085323P.
PR 13-MAY-1998; 98US-0085338P.
PR 13-MAY-1998; 98US-0085339P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085583P.
PR 15-MAY-1998; 98US-0085697P.
PR 15-MAY-1998; 98US-0085700P.
PR 15-MAY-1998; 98US-0085704P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086414P.
PR 22-MAY-1998; 98US-0086430P.

PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087106P.
PR 28-MAY-1998; 98US-0087208P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
XX (GETH ) GENENTECH INC.
XX Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
PI WPI; 1999-551358/46.
XX New secreted and transmembrane polypeptides and their polynucleotides,
XX useful for treating blood coagulation disorders, cancers and cellular
XX adhesion disorders.
XX Example 95; Page 257; 530pp; English.
XX The present invention describes secreted and transmembrane polypeptides
XX and their polynucleotides. The nucleotide sequences are useful as sources
XX of probes, primers, for chromosome mapping, and for generation of
XX antisense sequences. They can also be used to create transgenic animals.
XX The proteins can be used to treat a variety of diseases and disorders.
XX depending on their function. Diseases that may be treated include blood
XX coagulation disorders, cancers and cellular adhesion disorders. They may
XX also be used to raise antibodies. AAZ33891 to AAZ34338, and AAZ41685 to
XX AAZ41774 represent polynucleotide and polypeptide sequence given in the
XX exemplification of the present invention
XX Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
SQ Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGCGCTTCGACT 165
DB 17 GGAGTCGACTTCCTACT 1

RESULT 836
AAZ26293
ID AAZ26293 standard; DNA; 18 BP.
XX AAZ26293;
AC AAZ26293;
XX 26-MAY-1999 (first entry)
XX Human PDE1B1 specific sense primer.
XX Antisense oligodeoxynucleotide; phosphodiesterase; PDE1B1; enzyme; PDE;
XX cell death; apoptosis; cancer; Ca2+-calmodulin; lymphoblastoid; RNase H;
XX RPMI 8392; RNA degradation; cAMP; immunoproliferative disorder; breast;
XX immune dysfunction; acute lympholytic leukemia; prostate; PCR primer; ss.
XX Synthetic.
OS Homo sapiens.
XX US5885834-A.
XX 23-MAR-1999.
XX 30-SEP-1997; 97US-00940332.
XX 30-SEP-1996; 96US-0027207P.
XX (EPST/) EPSTEIN P M.
PI Epstein PM;
XX WPI; 1999-228548/19.
XX
```

PT Antisense oligodeoxynucleotides specific for mRNA encoding
PT phosphodiesterase PDE1B1 enzymes and method for using them to induce
PT apoptosis of cells - useful in the treatment of immunoproliferative
PT disorders and immune dysfunctions.
XX
PS Disclosure; Col 15; 35pp; English.
XX
CC The invention relates to antisense oligodeoxynucleotides (AS-ODN) which
CC will bind to mRNA encoding phosphodiesterase PDE1B1 enzymes and their use
CC in inducing programmed cell death (apoptosis) in cancer cells. PDE1B1 is a
CC Ca2+-calmodulin dependent phosphodiesterase found in cytosolic extracts
CC of human lymphoblastoid cell line, RPMI 8392. The method in which
CC programmed cell death is induced in cancer cells comprises: (i)
CC identifying the phosphodiesterase enzyme PDE1B1 in a cell line containing
CC the cancer cells; (2) synthesizing an AS-ODN inhibitor which will bind to
CC mRNA encoding PDE1B1; and (3) applying the AS-ODN to the cell line to
CC inhibit the enzymatic activity of the PDE1B1 and induce apoptosis in the
CC cells. The AS-ODNs inhibit the expression of a protein by two mechanisms:
CC (i) by degradation of RNA by the ubiquitous enzyme RNase H, which
CC selectively cleaves the RNA of DNA-RNA heteroduplexes; and (ii) the
CC arrest of translation initiation caused by AS-ODN hybridization to the 5'
CC un-translated region or the translation initiation site on the mRNA.
CC Inhibition of phosphodiesterase (PDE) enzyme expression results in
CC elevated levels of cAMP in the cells due to PDE1B1 being involved in the
CC metabolism of cAMP. The elevated cAMP levels result in apoptosis by
CC inhibition of DNA synthesis. The method and AS-ODN are useful in inducing
CC cAMP stimulated apoptosis and in the treatment of immunoproliferative
CC disorders and immune dysfunctions such as acute lympholytic leukemia,
CC breast and prostate cancer
XX
SQ Sequence 18 BP; 3 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 122 GTACGGCAGTCTGCGCC 138
DB 1 GTATGGCAGGATGCGCC 17

RESULT 837
AA86200/c
ID AAX86200 standard; DNA; 18 BP.
XX
AC AAX86200;
XX
DT 22-SEP-1999 (first entry)
XX
DE PCR primer used to amplify the PIG3 gene.
XX
KW p53 transcription tag; p53 status; cancer; cytotoxicity; carcinogenicity;
KW neoplastic; p53 binding site; PIG-3 promoter; PCR primer; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
FN WO9914356-A2.
XX
PD 25-MAR-1999.
XX
PF 17-SEP-1998; 98WO-US019300.
XX
PR 17-SEP-1997; 97US-0059153P.
PR 30-MAR-1998; 98US-0079817P.
XX
PA (UWJO) UNIV JOHNS HOPKINS.
XX
PI Vogelstein B, Kinzler KW, Polyak K;
XX
DR WPI; 1999-443793/37.
XX
PT Use of p53 transcription tags to determine p53 status in, e.g. cancer

PT diagnosis.
XX
PS Disclosure; Page 14; 73pp; English.
XX
CC The specification describes the use of p53 transcription tags for
CC developing products to determine p53 status, to diagnose cancer and to
CC evaluate cytotoxicity or carcinogenicity of a test agent. A method for
CC diagnosing cancer or determining p53 status in a sample suspected for
CC being neoplastic comprises comparing the level of transcription of an RNA
CC transcript in a first sample (s1) of a first tissue (t1) to the level of
CC transcription of the transcript in a second sample (s2) of a second
CC tissue (s2), where s1 is suspected of being neoplastic and s2 is a normal
CC human tissue (of the same type) and the transcript is identified by a tag
CC ; and categorizing s1 as neoplastic or as having a mutant p53 when a
CC transcription is found to be the same or lower in the first, than in s2.
CC The methods and products can be used to determine p53 status, to diagnose
CC cancer and to evaluate cytotoxicity or carcinogenicity of a test agent.
CC PCR primers AAX86199-200 were used to amplify the PIG3 gene, in the
CC course of the invention
XX
SQ Sequence 18 BP; 1 A; 7 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 328 CGCGCGACGACCGGCGC 344
DB 17 CCGCGGACGACCGGCGC 1

RESULT 838
AAX38073/c
ID AAX38073 standard; DNA; 18 BP.
XX
AC AAX38073;
XX
DT 04-JUN-1999 (first entry)
XX
DE HLA-A specific exon region primer SEQ ID NO:229.
XX
KW Human; histocompatibility locus antigen; HLA; determination; allele;
KW HLA-B typing; PCR; HLA class I; cis/trans linkage resolution; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
FN WO9907883-A1.
XX
PD 18-FEB-1999.
XX
PF 11-AUG-1998; 98WO-CA000768.
XX
PR 11-AUG-1997; 97US-00909290.
XX
PA (VISI-) VISIBLE GENETICS INC.
PA (BLAS/) BLASCIK R H.
XX
PI Blasczyk RH, Leushner J;
XX
DR WPI; 1999-167446/14.
XX
PT Determination of HLA class I group type of a subject - using group
PT specific untranslated region primer pair.
XX
PS Example; Page 21; 195pp; English.
XX
CC The present invention describes a method using novel primers involving
CC the PCR-based determination of histocompatibility locus antigen B (HLA-B)
CC Class I group type. Determining the HLA-B class I group type of a subject
CC comprises: (i) combining a group-specific untranslated region primer pair
CC with a target DNA sample from the subject under conditions such that
CC primer-based amplification of the target DNA may occur; and (ii)

CC determining whether a nucleic acid product is produced by the
CC amplification; where the ability of the primer pair to produce a nucleic
CC acid product is associated with a particular HLA group type. The method
CC can be used for HLA-B typing. In the method, the initial group specific
CC amplification allows a PCR based separation of haplotypes in 95% of
CC patient samples. It permits the resolution of cis/trans linkages of
CC heterozygote sequencing results which cannot be achieved with other
CC protocols. AAX37845 to AAX38286 represent DNA sequence used in the
CC exemplification of the present invention

XX
SQ Sequence 18 BP; 1 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 214 AGAACTCGGTGGCGGCC 230
DB 18 ACRACCTGGAGCGGCC 2

RESULT 839
AAA55505
ID AAA55505 standard; DNA; 18 BP.
AC AAA55505;
XX
DT 30-AUG-2000 (first entry)
XX
DE TRAF1 antisense oligonucleotide ISIS# 26707.
XX
KW Tumour necrosis factor receptor-associated factor; TRAF; human;
KW antisense oligonucleotide; phosphorothioate; antiproliferative;
KW anti-inflammatory; E-selectin; Jun kinase; ss.
XX
OS Synthetic.
XX
FN WO200020435-A1.
XX
PD 13-APR-2000.
XX
PF 05-OCT-1999; 99WO-US023171.
XX
PR 06-OCT-1998; 98US-00167109.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Baker BF, Cowsett LM, Monia BP, Xu XS;
XX
DR WPI; 2000-303732/26.
XX
PT Antisense oligonucleotides targeted to nucleic acids encoding human tumor
PT necrosis factor receptor-associated factor (TRAF), useful for treating
PT diseases associated with TRAF expression such as inflammatory diseases.
XX
PS Example 14; Page 46; 170pp; English.

CC The present invention relates to antisense oligonucleotides (see AAA55496
CC -A55757) which are targeted to nucleic acids encoding a human tumour
CC necrosis factor receptor-associated factor (TRAF). The antisense
CC sequences comprise at least one modified internucleotide linkage, which
CC is a phosphorothioate linkage. The oligonucleotides also include at least
CC one modified sugar moiety such as a 2'-O-methoxyethyl sugar moiety.
CC Sequences AAA55490-A55495 represent nucleotide sequences encoding human
CC TRAF1-6. Included in the invention is a method for treating a human
CC having a disease associated with the expression of TRAF comprising
CC administering an antisense oligonucleotide. The reduction of Jun kinase
CC activation in cells comprises contacting the cells with an antisense
CC oligonucleotide targeted to TRAF-6. A method for the reduction of E-
CC selectin expression in cells or tissues comprises contacting the cells or
CC tissues with an antisense oligonucleotide targeted to TRAF-2 or TRAF-6.
CC The antisense oligonucleotides have antiproliferative and anti-
CC inflammatory activity and are useful for treating disorders associated

CC with cell proliferation and inflammation. The antisense oligonucleotides
CC may also be used as a diagnostic probe for studying gene function

XX
SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 239 AGGCTGCTTCGGGGCT 255
DB 1 AGACGGCTTCCTGGGCT 17

RESULT 840
AAZ48548/c
ID AAZ48548 standard; DNA; 18 BP.
XX
AC AAZ48548;
XX
DT 31-MAR-2000 (first entry)
XX
DE Human TNFRI mRNA inhibiting antisense oligo ISIS# 18941.
XX
KW Tumour necrosis factor receptor type 1; TNFRI; antisense; infection;
KW inflammation; tumour formation; TNFRI; anticancer; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN US6007995-A.
XX
PD 28-DEC-1999.
XX
PF 26-JUN-1998; 98US-00106038.
XX
PR 26-JUN-1998; 98US-00106038.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Baker BF, Cowsett LM;
XX
DR WPI; 2000-105333/09.
XX
PT Antisense inhibition of tumor necrosis factor type 1 expression for
PT diagnosis, treatment and prevention of disease, particularly tumors.
XX
PS Claim 1; Col 25; 34pp; English.

CC The invention provides antisense compounds targeted to human tumour
CC necrosis factor receptor type 1 (TNFRI) RNA. These antisense compounds
CC can be used in a method of inhibiting the expression of TNFRI human cells
CC or tissues. The antisense compounds specifically hybridize with one or
CC more nucleic acids encoding TNFRI modulating the function of nucleic acid
CC molecules encoding TNFRI, ultimately modulating the amount of TNFRI
CC produced. The antisense compounds and method are useful as research
CC reagents and diagnostics, and in the treatment and prophylaxis of
CC infection, inflammation or tumour formation. Sequences AAZ48482-565
CC represent antisense oligos used for inhibition of the human TNFRI mRNA

XX
SQ Sequence 18 BP; 3 A; 9 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 131 GCTGGCCCGCTGGCGG 147
DB 18 GCTGGCGTCTGGAGG 2

RESULT 841
AAZ39609

ID AAZ39609 standard; DNA; 18 BP.
XX AAZ39609;
AC
XX
DT 28-FEB-2000 (first entry)
XX
DE Human CREL mRNA inhibiting antisense oligo ISIS #24093.
XX
XX Human; CREL; transcriptional activator; antisense compound; therapeutic;
KW ss.
XX
XX Synthetic.
OS Homo sapiens.
XX
XX US6001652-A.
FN
XX
XX 14-DEC-1999.
PD
XX
XX 18-SEP-1998; 98US-00156253.
PF
XX
XX 18-SEP-1998; 98US-00156253.
PR
XX
XX (ISIS-) ISIS PHARM INC.
PA
XX
XX Monia BP, Cowser LM, Baker BP;
PI
XX
XX WPI; 2000-061889/05.
DR
XX
XX Antisense modulation of human CREL expression.
PT
XX
XX Example 15; Col 27; 26pp; English.
PS
XX
XX The invention provides antisense compounds targeted to a coding region,
CC 3'UTR or 5'UTR of a nucleic acid molecule encoding human CREL
CC (transcriptional activator). The antisense compounds are useful as
CC research agents and diagnostics such as in the elucidation of the
CC function of a particular gene. The antisense compounds can be useful as
CC therapeutic modalities that can be configured to be useful in treatment
CC regimes for treatment of cells, tissues and animals, especially humans.
CC In the prior art, there are no known therapeutic agents which effectively
CC inhibit the synthesis of CREL and additional agents capable of inhibiting
CC CREL function are still required. Sequences AAZ39588-627 represent
CC antisense phosphorothioate oligodeoxynucleotides inhibiting human CREL
CC mRNA
XX
XX Sequence 18 BP; 2 A; 5 C; 4 G; 7 T; 0 U; 0 Other;
SQ

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 405 TTCTACGTGATCGAGAC 421
| | | | | | | | | | | | | | | | | |
Db 2 TTCTACGTGATCGTGGC 18

RESULT 842
AAZ69838/C
ID AAZ69838 standard; DNA; 18 BP.
XX
XX AAZ69838;
AC
XX
DT 10-SEP-2001 (first entry)
XX
DE Human biallelic marker upstream amplification primer SEQ ID NO:4194.
XX
XX Human genome; biallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridisation; identification; characterisation;
KW amplification; single nucleotide polymorphism; SNP; PCR primer;
KW diagnosis; ss.
XX
XX Homo sapiens.

XX WO9954500-A2.
FN
XX
XX 28-OCT-1999.
PD
XX
XX 21-APR-1999; 99WO-IB000822.
PF
XX
XX 21-APR-1998; 98US-0082614P.
PR
XX 23-NOV-1998; 98US-0109732P.
XX
XX (GEST) GENSET.
PA
XX
XX Cohen D, Blumenfeld M, Chumakov I;
FI
XX
XX WPI; 2000-013267/01.
DR
XX
XX Novel biallelic markers used to construct a high density disequilibrium
PT map of the human genome.
FT
XX
XX Claim 8; Page 1125; 2745pp; English.
PS
XX
XX AAZ65654 to AAZ69578 represent human biallelic markers from the present
CC invention, which contain a polymorphic base at position 24 of their
CC nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
CC primers for the biallelic markers. The biallelic markers of the invention
CC have a variety of uses: they can be used for high density mapping of the
CC human genome, and in complex association studies and haplotyping studies
CC which are useful in determining the genetic basis for disease states.
CC Compositions and methods of the invention can also be useful for the
CC identification of the targets for the development of pharmaceutical
CC agents and diagnostic methods, as well as the characterisation of the
CC differential efficacious responses to and side effects from
CC pharmaceutical agents acting on a disease as well as other treatment.
CC N.B. the SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
CC 3367, are not actually given a sequence in the Sequence Listing from the
CC present invention
XX
SQ Sequence 18 BP; 2 A; 3 C; 6 G; 7 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 45 GGCACCACTCAGGGA 61
| | | | | | | | | | | | | | | | | |
Db 18 GACCACCACTTAGAGAA 2

RESULT 843
AAC78898/C
ID AAC78898 standard; DNA; 18 BP.
XX
XX AAC78898;
AC
XX
DT 08-FEB-2001 (first entry)
XX
DE Human PRO298 forward PCR primer SEQ ID NO:519.
XX
XX Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;
KW expressed sequence tag; detection; cancer; PCR primer; probe; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200053756-A2.
FN
XX
XX 14-SEP-2000.
PD
XX
XX 18-FEB-2000; 2000WO-US004341.
PF
XX
XX 08-MAR-1999; 99WO-US005028.
PR
XX 12-MAR-1999; 99US-0123957P.
PR
XX 29-MAR-1999; 99US-0126773P.
PR
XX 21-APR-1999; 99US-0130232P.
PR

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PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 23-JUN-1999; 99US-0141037P.
PR 26-JUL-1999; 99US-0145698P.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US0283113.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Filvaroff EP, Fong S, Gao W, Gerber H, Gerritsen ME;
XX Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
XX Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
XX Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI; 2000-611443/58.
XX
XX Novel PRO polypeptides and polynucleotides used in detection methods, to
XX target bioactive molecules to specific cells, and to modulate cellular
XX activities.
XX
XX Example 95; Page 317; 636pp; English.
XX
XX AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
XX tag) sequences which encode secreted or transmembrane PRO polypeptides.
XX The PRO polynucleotides and polypeptides have cytostatic activity. The
XX polynucleotides and polypeptides can be used for detecting the presence
XX of PRO polypeptides in samples, for linking bioactive molecules to cells
XX and for modulating biological activities of cells, using the polypeptides
XX for specific targeting. The polypeptide targeting can be used to kill the
XX target cells, e.g. for the treatment of cancers. The polypeptide pairs
XX provide specific targeting of bioactive molecules to cells. AAC78600 to
XX AAC78987 represent PCR primers and probes used in the isolation of the
XX PRO polynucleotide sequences
XX
XX Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
XX Best Local Similarity 82.4%; Pred. No. 4.7e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 149 GGAGGCGCGCTTCGACT 165
XX 17 GGAGTCGACTTCACCT 1
XX
XX Db
XX
XX RESULT 844
XX AAA53953
XX ID AAA53953 standard; DNA; 18 BP.
XX
XX AC AAA53953;
XX
XX XX 03-JAN-2001 (first entry)
XX
XX DE Universal primer used in differentiation/identification method.
XX
XX XX Identification; prokaryote; polymerase chain reaction; PCR;
XX amplification; primer; differential display; picric acid degradation;
XX gene cluster; open reading frame; ORF; dehydratase; dehydrogenase;
XX transcription factor; Acyl-CoA synthase; NADPH oxidoreductase; ss.
XX
XX OS Synthetic.
XX
XX PR WO200049177-A2.
XX
XX PN
XX XX
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PD 24-AUG-2000.
XX
XX PF 17-FEB-2000; 2000WO-US003989.
XX
XX PR 19-FEB-1999; 99US-0120702P.
XX
XX PA (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX PI Rouviere P;
XX
XX XX WPI; 2000-587069/55.
XX
XX Differential display method using a large number of arbitrary primers for
XX RT-PCR used to isolate novel differentially expressed prokaryotic genes.
XX
XX PS Disclosure; Page 61; 66pp; English.
XX
XX CC A new method to identify differentially expressed prokaryotic genes using
XX a large number of arbitrarily primed polymerase chain reactions comprises
XX separating two populations of microbial cells, where a first population
XX is contacted with a stimulating agent; extracting total RNA from both
XX microbial cell populations; amplifying the extracted RNA from both
XX populations by preparing a collection of at least thirty-two different
XX arbitrary primers, where each primer comprises a common and a variable
XX region; individually contacting each primer of with a sample of extracted
XX RNA from the two populations under conditions where two sets of
XX amplification products are produced; purifying the two sets of
XX amplification products; identifying the amplification products generated
XX in the first population which differ from products generated from the
XX second population as differentially expressed genes; and optionally
XX sequencing the identified differentially expressed genes. The advantage
XX over previous methods is that previous methods of differential display to
XX clone genes using thirty-two or thirty primers have isolated four and one
XX genes, respectively. The new method using a greater number of primers has
XX isolated twenty-one induced gene fragments. This universal primer was
XX used for the reamplification of the differentially amplified bands
XX
XX SQ Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
XX Best Local Similarity 82.4%; Pred. No. 4.7e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 178 AGTCCAAGGCACATATC 194
XX 1 AGTCCACGGACATATC 17
XX
XX Db
XX
XX RESULT 845
XX AAF85457/c
XX ID AAF85457 standard; DNA; 18 BP.
XX
XX AC AAF85457;
XX
XX XX 23-JUL-2001 (first entry)
XX
XX DE Polynucleotide in unique region in exon 1 of rabbit motilin receptor.
XX
XX KW Motilin receptor; gastrointestinal disease; gastric motility disorder;
XX gastroparesis; irritable bowel syndrome; diarrhoea; ss.
XX
XX OS Oryctolagus cuniculus.
XX
XX PN WO200132710-A1.
XX
XX PD 10-MAY-2001.
XX
XX XX 25-OCT-2000; 2000WO-US029426.
XX
XX PR 29-OCT-1999; 99US-0162264P.
XX
XX PA (MERI ) MERCK & CO INC.
XX
XX XX
```

PI Tan C, McKee K;
XX WPI; 2001-343479/36.
XX
XX Novel polypeptides related to dog and rabbit motilin receptor
PT polypeptide, comprising unique regions from dog and motilin receptor
PT amino acid sequence, useful for identifying compounds for treating
PT diarrhea in humans.
XX
XX Claim 17; Page 22; 42pp; English.
PS
XX AAF85456-60 represent polynucleotide sequences from the unique region of
CC exon 1 of a rabbit motilin receptor gene. The specification describes an
CC unique sequence present in exon 1 of the motilin receptor, which is not
CC present in human or Sphaeroides naphelus 7587 motilin receptor sequences.
CC The unique nucleic acid sequence is useful for measuring the ability of a
CC compound to affect motilin receptor activity. Motilin receptor
CC polynucleotides and polypeptides are used to identify therapeutic
CC compounds which are useful for treating gastrointestinal diseases and
CC disorders such as gastric motility disorders, gastroparesis, irritable
CC bowel syndrome, and diarrhoea
XX
SQ Sequence 18 BP; 1 A; 7 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 373 TCCTGGACCGCGACGAC 389
Db 18 TCCGGGCGCGGAGAC 2

RESULT 846
AAF79645/c
ID AAF79645 standard; DNA; 18 BP.
XX
AC AAF79645;
XX
XX 29-MAY-2001 (first entry)
DT
DE Human Akt-3 antisense oligonucleotide, SEQ ID NO: 53.
XX
XX Human; Akt-3; protein kinase; cytostatic; antiinflammatory; infection;
XX antisense therapy; inflammation; tumour; ss.
XX
XX Homo sapiens.
XX
XX US6187586-B1.
XX
XX 13-FEB-2001.
XX
XX 29-DEC-1999; 99US-00474922.
XX
XX 29-DEC-1999; 99US-00474922.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Cowsett LM, Roth RA;
XX WPI; 2001-264979/27.
XX
XX New antisense compounds targeting nucleic acids encoding human Akt-3
PT useful for treating a disease or condition associated with Akt-3
PT expression, or in preventing or delaying inflammation or tumor formation.
PT
XX
XX Claim 1; Col 39; 37pp; English.
PS
XX
XX The present sequence is one of a number of antisense compounds of up to
CC 30 nucleobases in length targeted to a nucleic acid encoding human Akt-3.
CC The antisense compounds are useful for inhibiting the expression of human
CC Akt-3 in human cells or tissues. They are also useful for modulating the
CC expression of Akt-3, and for treating a human or an animal suspected of

CC having, or being prone to, a disease or condition associated with Akt-3
CC expression. The antisense compounds may also be used as research
CC reagents, in kits and in diagnostics, e.g. to elucidate the function of a
CC particular gene or to distinguish between functions of various members of
CC a biological pathway; and as a prophylactic, e.g. to prevent or delay
CC infection, inflammation or tumour formation
XX
SQ Sequence 18 BP; 3 A; 6 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 76 AGGCGCGCGCGAGTGGAC 92
Db 18 ATGGCGCGCGAGTAGAC 2

RESULT 847
AAF82476/c
ID AAF82476 standard; DNA; 18 BP.
XX
AC AAF82476;
XX
XX 29-JUN-2001 (first entry)
DT
DE Rat P00188D09 RNA reverse PCR primer.
XX
XX Rat; secreted factor; P00210D09; P00188D09; cardiant; nephrotropic;
XX antiinflammatory; gene therapy; cardiac disease; renal disease;
XX inflammatory disease; PCR primer; ss.
XX
XX Rattus norvegicus.
XX
XX WO200123419-A2.
XX
XX 05-APR-2001.
XX
XX 27-SEP-2000; 2000WO-US026582.
XX
XX 27-SEP-1999; 99US-0156277P.
XX
XX (SCIO-) SCIOS INC.
XX
XX Stanton LW, Kapoun AM;
XX
XX WPI; 2001-328177/34.
XX
XX Novel secreted factor encoded by clone P00210D09 useful for diagnosing,
PT treating and/or preventing various cardiac, renal and inflammatory
PT diseases.
XX
XX Example 9; Page 51; 69pp; English.
PS
XX
XX The present sequence was used to amplify rat P00188D09 RNA by
CC quantitative real-time PCR. The invention relates to a polypeptide
CC comprising a sequence of at least 80% identity to residues 22-122 of the
CC present sequence, or a sequence encoded by a nucleic acid hybridising
CC under stringent conditions to the complement of the coding region
CC comprising 1031 nucleotides, and having at least one biological activity
CC of the polypeptide encoded by rat clone P00210D09. The polypeptides and
CC polynucleotides of the invention are useful for the treatment of cardiac,
CC renal and inflammatory diseases. The P00210D09 polynucleotides are useful
CC in antisense mediated gene inhibition and in gene therapy. The
CC polypeptides are useful in assays for identifying lead compounds that may
CC be used as therapeutic agents in the treatment of cardiac, kidney or
CC inflammatory diseases
XX
SQ Sequence 18 BP; 3 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 16 TCGGGGTGACCGAGGC 32
 DB 17 TCGAGGTGATCGAGC 1

RESULT 848
 ARH40381
 ID AAH40381 standard; DNA; 18 BP.
 AC AAH40381;
 DT 14-AUG-2001 (first entry)

XX SNP specific upper PCR primer SEQ ID 3177.
 DE
 XX

XX Single nucleotide polymorphism; SNP; single nucleotide primer extension;
 KW SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer;
 KW Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia;
 KW polycystic kidney disease; osteogenesis imperfecta; autoimmune disease;
 KW acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;
 KW inflammation; forensic investigation; paternity analysis; PCR primer; ss.

XX Homo sapiens.
 OS
 XX WO200129262-A2.
 PN
 XX 26-APR-2001.
 PD
 XX 13-OCT-2000; 2000WO-US028436.
 PF
 XX 15-OCT-1999; 99US-0160096P.
 PR
 XX (ORCH-) ORCHID BIOSCIENCES INC.
 PA
 XX Picoult-Newburg L, Pohl M;
 PI
 XX WPI; 2001-290930/30.
 DR
 XX

XX New genotyping oligonucleotide, useful for detecting the presence,
 PT absence or identity of single polynucleotide polymorphism in a nucleic
 PT acid sample.
 PT

XX Claim 1; Page 66; 83pp; English.

XX Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide
 CC primer extension (SNPE) primers, and the sequences of regions flanking
 CC sites of single nucleotide polymorphisms SNPs. The present invention
 CC includes kits for determining the presence or absence of a SNP, using the
 CC oligonucleotides of the invention. The PCR primers are used to amplify a
 CC SNP flanking sequence, the SNPE primer is used as a genotyping primer.
 CC The oligonucleotides are useful for genotyping a nucleic acid sample by
 CC performing a single-nucleotide primer extension reaction. The
 CC oligonucleotides are useful for determining the presence, absence or
 CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to
 CC assess by association analysis the genotype of an individual or group of
 CC individuals, having a pathological phenotypic trait suspected of being
 CC caused by one or more SNPs. Phenotypic traits include diseases e.g.
 CC agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular
 CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease,
 CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic
 CC traits also include symptoms of or susceptibility to multifactorial
 CC diseases of which a component is or may be genetic such as autoimmune
 CC diseases, including, rheumatoid arthritis, multiple sclerosis,
 CC inflammation, cancer, nervous system diseases and infection by pathogenic
 CC microorganism. The method is also useful in forensic investigations and
 CC paternity analysis. The present sequence represents a PCR primer specific
 CC for a human SNP containing DNA sequence

XX Sequence 18 BP; 4 A; 4 C; 9 G; 1 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 140 CCTGGCGGTGAGGCCG 156
 DB 2 CCGGAGGTGAAGCCG 18

RESULT 849
 ABZ72355/C
 ID ABZ72355 standard; DNA; 18 BP.
 XX
 AC ABZ72355;
 AC

DT 03-APR-2003 (first entry)

XX Gene 216 polymorphism genotyping ASO primer SEQ ID NO 327.

XX Human; Gene 216; chromosome 20p13-p12; antiasthmatic; anorectic;
 KW antiinflammatory; gastrointestinal; gene therapy; vaccine; asthma;
 KW obesity; inflammatory bowel disease; primer; ss.
 KW
 OS Synthetic.

XX WO200178894-A2.

XX 25-OCT-2001.

XX 13-APR-2001; 2001WO-US012245.

XX 13-APR-2000; 2000US-00548797.

XX (GENO-) GENOME THERAPEUTICS CORP.

XX Keith T;

XX WPI; 2001-639428/73.

XX Isolated genes (Gene 216) from human chromosome 20p13-p12 and the
 PT proteins they encode, useful for the prevention, diagnosis and treatment
 PT of asthma, obesity and inflammatory bowel disease.
 PT

XX Example 11; Page 156; 520pp; English.

XX The invention relates to isolated genes (Gene 216) from human chromosome
 CC 20p13-p12 and the proteins they encode. The nucleic acids and proteins
 CC may be used in the prevention, diagnosis and treatment of diseases
 CC associated with inappropriate Gene 216 expression. For example, the
 CC nucleic acids (or vectors) and proteins may be used to treat disorders
 CC associated with decreased expression by rectifying mutations or deletions
 CC in a patient's genome that affect the activity of gene 216 by expressing
 CC inactive proteins or to supplement the patients own production of Gene
 CC 216 proteins. Additionally, the nucleic acids may be used to produce the
 CC secreted Gene 216 protein, by inserting the nucleic acids into a host
 CC cell and culturing the cell to express the protein. The nucleic acids and
 CC complementary sequences may also be used as DNA probes in diagnostic
 CC assays to detect and quantitate the presence of similar nucleic acid
 CC sequences in samples and therefore which patients may be in need of
 CC restorative therapy. The Gene 216 protein may also be used as antigens in
 CC the production of antibodies against Gene 216 and in assays to identify
 CC modulators of Gene 216 expression and activity. The anti-Gene 216
 CC antibodies and antagonists may also be used to down regulate expression
 CC and activity. The anti-Gene 216 antibodies may also be used as diagnostic
 CC agents for detecting the presence of Gene 216 proteins in samples (e.g.
 CC by enzyme linked immunosorbent assay or ELISA). Disorders that may be
 CC prevented, diagnosed and/or treated by the above methods include, for
 CC example asthma, obesity and inflammatory bowel disease. The present
 CC sequence is that of a Gene 216 related primer used in examples of the
 CC invention. The primers are used in the physical mapping of the gene
 CC (ABZ72067-ABZ72068), polymorphism identification using single strand
 CC conformational polymorphism (SSCP) analysis (ABZ72091-ABZ72184),
 CC sequencing (ABZ72185-ABZ72268) and genotyping (ABZ72317-ABZ72362)

XX Sequence 18 BP; 1 A; 3 C; 9 G; 5 T; 0 U; 0 Other;

XX DT 09-APR-2002 (first entry)
 XX DE PCR primer Igfr-12 relating to gene imprinting invention.
 XX KW Human; genomic imprinting; pluripotent mouse embryonic germ cell line;
 KW EG; methylated CpG island; DNA methylation; gene imprinting;
 KW post-translational modification of histone; cancer; birth defect;
 KW diabetes; aberrant imprinting; PCR; primer; ss.
 XX OS Homo sapiens.
 XX PN WO2001903113-A2.
 XX PD 29-NOV-2001.
 XX PF 22-MAY-2001; 2001WO-US016253.
 XX PR 22-MAY-2000; 2000US-0206158P.
 XX PR 22-MAY-2000; 2000US-0206161P.
 XX PA (UYJO) UNIV JOHNS HOPKINS.
 XX PI Feinberg A, Strichman-Almashanu L, Jiang S;
 XX PI WPI; 2002-083100/11.
 XX DR
 XX PT Forming embryonic germ cells useful as model system to study imprinting
 PT involves mating genetically divergent male and female mammal of same
 PT species, dissecting and dissociating embryo obtained from pregnant
 PT mammal.
 XX PS Disclosure; Page 54; 125pp; English.
 XX CC The present invention relates to a model system for genomic imprinting
 CC using pluripotent mouse embryonic germ (EG) cell lines derived from an
 CC interspecific cross. Also disclosed is a library containing methylated
 CC CpG islands and a method for assaying methylation in one or more
 CC imprintable genes. The gene imprinting assay is carried out by single-
 CC strand conformation polymorphism (SSCP), quantitative sequencing, single
 CC nucleotide primer extension or hot stop PCR. The assays are carried out
 CC to determine the post-translational modification of histones. The method
 CC further involves identifying a test substance as a candidate drug for
 CC treating cancer if the test substance enhances imprinting of a gene whose
 CC imprinting is lost in cancer, or if the test substance inhibits
 CC imprinting of a gene whose imprinting is gained in cancer. The methylated
 CC CpG islands are useful for providing an assessment of the risk of
 CC developing cancer, or for providing diagnostic information relative to
 CC cancer which involves determining the methylation status of the CpG
 CC island in a patient's DNA. The EG cells allow the accession of imprinted
 CC genes which are useful for detecting birth defects, diabetes and cancers
 CC associated with aberrant imprinting. The EG cell lines represent the
 CC first in vitro model system in which genomic imprinting can be followed
 CC dynamically and the two alleles can be distinguished. AAS20953-AAS20969
 CC represent PCR primers described in the present invention
 XX SQ Sequence 18 BP; 1 A; 8 C; 5 G; 4 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 92 CATCACACGCTGTGACC 108
 Db 17 CAGCACCCACAGCTGACC 1
 RESULT 850
 ABA82276/C
 ID ABA82276 standard; DNA; 18 BP.
 XX AC ABA82276;
 XX DT 25-JAN-2002 (first entry)
 XX DE Zmax1 gene region physical map preparation STS marker #235.
 XX KW Human; high bone mass; HBM gene; Zmax1 gene; chromosome 11; 11q13.3;
 KW sequence tagged site; STS; osteoporosis; osteopathic; gene therapy;
 KW antisense therapy; vaccine; bone disorder; Paget's disease; adapter;
 KW sclerostosis; osteomalacia; fibrous dysplasia; PCR primer; linker; ss.
 XX OS Homo sapiens.
 XX OS Synthetic.
 XX PN WO200177327-A1.
 XX PD 18-OCT-2001.
 XX PF 21-JUN-2000; 2000WO-US016951.
 XX PR 05-APR-2000; 2000US-00543771.
 XX PR 05-APR-2000; 2000US-00544398.
 XX PA (GENO-) GENOME THERAPEUTICS CORP.
 XX PI Carulli JP, Little RD, Recker RR, Johnson ML;
 XX PI WPI; 2001-657171/75.
 XX DR
 XX PT New high bone mass (HBM) and Zmax1 genes and proteins useful for
 PT modulating bone mass for the treatment of e.g. osteoporosis.
 XX PS Disclosure; Page 34; 443pp; English.
 XX CC The present invention describes the human Zmax1 gene and the high bone
 CC mass (HBM) gene, which are found on chromosome 11q13.3. The Zmax1 and HBM
 CC genes have osteopathic activities. The genes can be used in gene therapy,
 CC antisense therapy and in the production of vaccines. They can be used in
 CC the diagnosis and treatment of bone disorders including osteoporosis,
 CC Paget's disease, sclerostosis, osteomalacia and fibrous dysplasia.
 CC ABA82038 to ABA82700 and AAG68168 to AAG68193 represent sequences used in
 CC the exemplification of the present invention
 XX SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 GCGCAGGAGTGAACTG 17
 Db 18 GCGCAGGAGTGACTCTG 2
 RESULT 851
 AAS20963/C
 ID AAS20963 standard; DNA; 18 BP.
 XX AC AAS20963;
 XX AC AAS20963;

XX DT 09-APR-2002 (first entry)
 XX DE PCR primer Igfr-12 relating to gene imprinting invention.
 XX KW Human; genomic imprinting; pluripotent mouse embryonic germ cell line;
 KW EG; methylated CpG island; DNA methylation; gene imprinting;
 KW post-translational modification of histone; cancer; birth defect;
 KW diabetes; aberrant imprinting; PCR; primer; ss.
 XX OS Homo sapiens.
 XX PN WO2001903113-A2.
 XX PD 29-NOV-2001.
 XX PF 22-MAY-2001; 2001WO-US016253.
 XX PR 22-MAY-2000; 2000US-0206158P.
 XX PR 22-MAY-2000; 2000US-0206161P.
 XX PA (UYJO) UNIV JOHNS HOPKINS.
 XX PI Feinberg A, Strichman-Almashanu L, Jiang S;
 XX PI WPI; 2002-083100/11.
 XX DR
 XX PT Forming embryonic germ cells useful as model system to study imprinting
 PT involves mating genetically divergent male and female mammal of same
 PT species, dissecting and dissociating embryo obtained from pregnant
 PT mammal.
 XX PS Disclosure; Page 54; 125pp; English.
 XX CC The present invention relates to a model system for genomic imprinting
 CC using pluripotent mouse embryonic germ (EG) cell lines derived from an
 CC interspecific cross. Also disclosed is a library containing methylated
 CC CpG islands and a method for assaying methylation in one or more
 CC imprintable genes. The gene imprinting assay is carried out by single-
 CC strand conformation polymorphism (SSCP), quantitative sequencing, single
 CC nucleotide primer extension or hot stop PCR. The assays are carried out
 CC to determine the post-translational modification of histones. The method
 CC further involves identifying a test substance as a candidate drug for
 CC treating cancer if the test substance enhances imprinting of a gene whose
 CC imprinting is lost in cancer, or if the test substance inhibits
 CC imprinting of a gene whose imprinting is gained in cancer. The methylated
 CC CpG islands are useful for providing an assessment of the risk of
 CC developing cancer, or for providing diagnostic information relative to
 CC cancer which involves determining the methylation status of the CpG
 CC island in a patient's DNA. The EG cells allow the accession of imprinted
 CC genes which are useful for detecting birth defects, diabetes and cancers
 CC associated with aberrant imprinting. The EG cell lines represent the
 CC first in vitro model system in which genomic imprinting can be followed
 CC dynamically and the two alleles can be distinguished. AAS20953-AAS20969
 CC represent PCR primers described in the present invention
 XX SQ Sequence 18 BP; 1 A; 8 C; 5 G; 4 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 75 GAGGGCCGCGCAGTGGA 91
 Db 18 GATGGCCCCGACAGGA 2
 RESULT 852
 ABO5044/C
 ID ABO5044 standard; DNA; 18 BP.
 XX AC ABO5044;
 XX AC ABO5044;

DT 11-OCT-2002 (first entry)
DE TNFR1 expression modulation related antisense oligo SEQ ID No 74.
XX Antisense compound; tumour necrosis factor receptor 1; liver disease;
KW TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer;
KW human; ds.
XX Homo sapiens.
XX WO200248168-A1.
PN 20-JUN-2002.
XX 22-OCT-2001; 2001WO-US051224.
PF 24-OCT-2000; 2000US-00695451.
PR (ISIS-) ISIS PHARM INC.
XX Baker BF, Cowser LM, Zhang H, Dean NM;
XX WPI; 2002-583481/62.
XX Novel antisense compound targeted to nucleic acid molecule encoding tumor
PT necrosis factor receptor 1 (TNFR1), useful for treating humans having
PT disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.
XX Example 10; Page 45; 121pp; English.
XX The invention relates to an antisense compound 8 to 30 nucleotides in
CC length targeted to nucleic acid molecule encoding tumour necrosis factor
CC receptor 1 (TNFR1), where the antisense compound inhibits expression of
CC TNFR1. The antisense compound is useful for inhibiting the expression of
CC TNFR1 in cells or tissues. The antisense compound is also useful for
CC treating an animal (preferably human) having a disease or condition
CC associated with TNFR1, e.g. a liver disease (such as hepatitis, or liver
CC injury) or a hyperproliferative disorder such as cancer, by inhibiting
CC the expression of TNFR1. The antisense compound is useful for
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.
CC This polynucleotide sequence represents a human oligonucleotide relating
CC to the TNFR1 of the invention
XX
SQ Sequence 18 BP; 3 A; 9 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 131 GCTGGCCGCGCTGGCGG 147
|||||
Db 18 GCTGGCGTGGCTGGAGG 2
RESULT 853
ABT05119
ID ABT05119 standard; DNA; 18 BP.
XX AC ABT05119;
XX 11-OCT-2002 (first entry)
XX TNFR1 expression modulation related antisense oligo SEQ ID No 149.
DE Antisense compound; tumour necrosis factor receptor 1; liver disease;
KW TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer;
KW human; ds.
XX Homo sapiens.
XX WO200248168-A1.
PN 20-JUN-2002.
XX 22-OCT-2001; 2001WO-US051224.
PF 24-OCT-2000; 2000US-00695451.
PR (ISIS-) ISIS PHARM INC.
XX Baker BF, Cowser LM, Zhang H, Dean NM;
XX WPI; 2002-583481/62.
XX Novel antisense compound targeted to nucleic acid molecule encoding tumor
PT necrosis factor receptor 1 (TNFR1), useful for treating humans having
PT disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.
XX Example 10; Page 45; 121pp; English.
XX The invention relates to an antisense compound 8 to 30 nucleotides in
CC length targeted to nucleic acid molecule encoding tumour necrosis factor
CC receptor 1 (TNFR1), where the antisense compound inhibits expression of
CC TNFR1. The antisense compound is useful for inhibiting the expression of
CC TNFR1 in cells or tissues. The antisense compound is also useful for
CC treating an animal (preferably human) having a disease or condition
CC associated with TNFR1, e.g. a liver disease (such as hepatitis, or liver
CC injury) or a hyperproliferative disorder such as cancer, by inhibiting
CC the expression of TNFR1. The antisense compound is useful for
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.
CC This polynucleotide sequence represents a human oligonucleotide relating
CC to the TNFR1 of the invention
XX
SQ Sequence 18 BP; 3 A; 9 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 131 GCTGGCCGCGCTGGCGG 147
|||||
Db 18 GCTGGCGTGGCTGGAGG 2
RESULT 853
ABT05119
ID ABT05119 standard; DNA; 18 BP.
XX AC ABT05119;
XX 11-OCT-2002 (first entry)
XX TNFR1 expression modulation related antisense oligo SEQ ID No 149.
DE Antisense compound; tumour necrosis factor receptor 1; liver disease;
KW TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer;
KW human; ds.
XX Homo sapiens.
XX WO200248168-A1.
PN 20-JUN-2002.

XX 22-OCT-2001; 2001WO-US051224.
PF 24-OCT-2000; 2000US-00695451.
PR (ISIS-) ISIS PHARM INC.
XX Baker BF, Cowser LM, Zhang H, Dean NM;
XX WPI; 2002-583481/62.
XX Novel antisense compound targeted to nucleic acid molecule encoding tumor
PT necrosis factor receptor 1 (TNFR1), useful for treating humans having
PT disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.
XX Example 18; Page 56; 121pp; English.
XX The invention relates to an antisense compound 8 to 30 nucleotides in
CC length targeted to nucleic acid molecule encoding tumour necrosis factor
CC receptor 1 (TNFR1), where the antisense compound inhibits expression of
CC TNFR1. The antisense compound is useful for inhibiting the expression of
CC TNFR1 in cells or tissues. The antisense compound is also useful for
CC treating an animal (preferably human) having a disease or condition
CC associated with TNFR1, e.g. a liver disease (such as hepatitis, or liver
CC injury) or a hyperproliferative disorder such as cancer, by inhibiting
CC the expression of TNFR1. The antisense compound is useful for
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.
CC This polynucleotide sequence represents a human oligonucleotide relating
CC to the TNFR1 of the invention
XX
SQ Sequence 18 BP; 4 A; 2 C; 9 G; 3 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 141 CTGGCGGTGGAGCGCG 157
|||||
Db 1 CTGGAGGTGGAGGACGG 17
RESULT 854
AAL43633
ID AAL43633 standard; DNA; 18 BP.
XX AC AAL43633;
XX 05-SEP-2002 (first entry)
XX Rhodococcus picric acid degradation pathway-related universal PCR primer.
DE Picric acid degradation gene cluster; ss; recombinant organism;
KW Picric acid degradation pathway; PCR; primer.
XX Unidentified.
OS US2002042117-A1.
XX 11-APR-2002.
XX 17-SEP-2001; 2001US-00955597.
PF 03-SEP-1999; 99US-0152545P.
PR 31-AUG-2000; 2000US-00651941.
XX (ROUV/) ROUVIERE P E.
PA (WALT/) WALTERS D M.
PA (RUSS/) RUSS R.
XX Rouviere PE, Walters DM, Russ R;
XX WPI; 2002-381946/41.

PT Isolated nucleic acid fragments encoding enzymes of the picric acid
PT degradation pathway isolated from *Rhodococcus erythropolis* HL PM-1,
PT useful in the creation of recombinant organisms that have the ability to
PT degrade picric acid.
XX
XX Example 5; Page 15; 53pp; English.
PS
XX The invention comprises 12 *Rhodococcus erythropolis* ORFs encoding enzymes
XX of the picric acid degradation pathway. The invention also comprises the
XX nucleotide sequence of the picric acid degradation gene cluster
XX containing all 12 of the ORFs. The picric acid degradation pathway genes
XX and enzymes of the invention are useful for creating recombinant
XX organisms that have the ability to degrade picric acid. As well as for
XX the identification of new species of bacteria that have the ability to
XX degrade picric acid. The present DNA sequence represents a *Rhodococcus*
XX picric acid degradation pathway-related universal reamplification PCR
XX primer
XX
XX Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
SQ
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 178 AGTCCACGAGCATATC 194
Db 1 AGTCCACGAGCATATC 17
RESULT 855
ABK51851
ID ABK51851 standard; DNA; 18 BP.
XX AC ABK51851;
XX
XX 13-AUG-2002 (first entry)
XX
DE R. *erythropolis* picric acid degradation related universal PCR primer.
XX
XX Picric acid degradation; 2,4,6-trinitrophenol; explosive manufacturing;
KW aniline; colour fast dye; pharmaceutical; steel etching; PCR;
KW environmental toxicant; enzymatic degradative process; primer; ss.
XX
XX Synthetic.
XX
XX US6355470-B1.
XX
XX 12-MAR-2002.
XX
XX 31-AUG-2000; 2000US-00651941.
XX
XX 03-SEP-1999; 99US-0152545P.
XX
XX (DUPO) DU PONT DE NEMOURS & CO E I.
XX
XX Rouviere PE, Walters DM, Russ R;
XX
XX WPI; 2002-433274/46.
XX
XX Nucleic acid encoding an F420/NADPH oxidoreductase isolated from
PT *Rhodococcus erythropolis* HL PM-1 is associated with picric acid
PT degradation and is useful to create recombinant organisms that degrade.
XX
XX Example 5; Col 26; 49pp; English.
PS
XX The present invention relates to the isolation of *Rhodococcus*
XX *erythropolis* HL PM-1 gene cluster containing 12 open reading frames
XX (ORFs) implicated in the degradation of picric acid (2,4,6-
XX trinitrophenol). The polynucleotide sequences of the invention are useful
XX for creating recombinant organisms that have the ability to degrade
XX picric acid. Picric acid which is used in industrial applications
XX including the manufacture of explosives, aniline, colour fast dyes,
XX pharmaceuticals and in steel etching, is highly unstable. The present

CC invention provides a means of disposal/removal of this toxic substance
CC from the environment by an enzymatic degradative process. The present
CC sequence represents a universal PCR primer used in the examples of the
CC present invention
XX
XX Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
SQ
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 178 AGTCCACGAGCATATC 194
Db 1 AGTCCACGAGCATATC 17
RESULT 856
ABK23073/C
ID ABK23073 standard; DNA; 18 BP.
XX AC ABK23073;
XX
XX 09-APR-2002 (first entry)
XX
XX Human Zmax1 cDNA forward PCR primer #118.
XX
XX Human; mouse; Zmax1; HBM; high bone mass gene; lipid regulation; stroke;
KW lipid-associated condition; arteriosclerosis; cardiovascular disease; ss;
KW osteoporosis; atherosclerosis; diabetic atherosclerosis; plaque build-up;
KW neurovascular condition; wound healing; gene therapy; PCR primer; probe;
KW bone development disorder; arteriosclerotic; cardiovascular;
KW osteopathic; cerebroprotective.
XX
XX Homo sapiens.
XX
XX WO200192891-A2.
XX
XX 06-DEC-2001.
XX
XX 25-MAY-2001; 2001WO-US016946.
XX
XX 26-MAY-2000; 2000US-00578900.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
XX (UYCR-) UNIV CREIGHTON SCHOOL MEDICINE.
XX
XX Carulli JP, Little RD, Recker RR, Johnson ML;
XX
XX WPI; 2002-097784/13.
XX
XX Identifying molecules involved in lipid regulation, useful for
PT diagnosing, treating or preventing e.g., arteriosclerosis, comprises
PT identifying a molecule that binds to high bone mass gene or its
PT corresponding wild type gene.
XX
XX Disclosure; Page 39; 409pp; English.
PS
XX The invention relates to a method for identifying a molecule involved in
XX lipid regulation comprising identifying a molecule that binds to or
XX inhibits binding of a molecule to high bone mass (HBM) or its wild type
XX gene, Zmax1. Compounds identified by the method are useful for treating,
XX diagnosing, preventing or screening for normal and abnormal lipid-
XX associated conditions, including arteriosclerosis, cardiovascular
XX disease, stroke, and osteoporosis. The compounds may also be used in the
XX treatment or prevention of diabetic atherosclerosis, neurovascular
XX conditions caused by plaque build-up, poor circulation due to plaque
XX build-up and associated poor wound healing. The methods may be used in
XX gene therapy, pharmaceutical development, and diagnostic assays for bone
XX development disorders. Molecules identified by comparison of Zmax1 and
XX HBM systems can be used as surrogate markers in pharmaceutical
XX development, in diagnosis of human or animal bone disease, and in the
XX treatment of bone diseases. Sequences ABK22776-ABK23411 represent cDNA
XX molecules encoding human Zmax1 and HBM, and PCR primers, probes, linkers

```
CC and adapters of the invention
XX
SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;

Query Match      2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCCCAGGAGTGAACTG 17
   |||||
Dd 18 GGCAGGAGTGACTCTG 2

RESULT 857
ABL30698
ID ABL30698 standard; DNA; 18 BP.
XX
AC ABL30698;
XX
DT 21-MAR-2002 (first entry)
XX
DE Human HLA genotyping oligonucleotide SEQ ID NO 187.
XX
KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
KW immunogenetic; transplantation; genetic disease; ss.
XX
OS Homo sapiens.
XX
PN WO200192572-A1.
XX
PD 06-DEC-2001.
XX
PF 01-JUN-2001; 2001WO-JP004662.
XX
PR 01-JUN-2000; 2000JP-00164798.
XX
PA (NISHI) NISSHINBO IND INC.
XX
PA (SYST-) SYSTEM RES INC.
XX
PI Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
XX
WPI; 2002-122074/16.
XX
PT Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of
PT individuals e.g. by determining immunogenetic differences when
PT transplanting between them.
XX
PS Claim 10; Page 128; 345pp; Japanese.
XX
CC The invention relates to a typing kit for judging human leukocyte antigen
CC (HLA) genotype of a sample by hybridising a substrate on which 10-24 base
CC oligonucleotides (ABL30512-ABL31809) originating in the sequences of
CC genes e.g. belonging to HLA class I antigens on human genome and
CC containing gene polymorphisms as alloantigens have been immobilised as
CC primers for amplification of cleaved nucleic acids relating to gene
CC polymorphisms. The method is useful for judging HLA genotypes of
CC individuals by determining immunogenetic differences before transplanting
CC organ and tissue for transplantation e.g. of bone marrow, kidney, liver,
CC pancreas, Langerhans islet in pancreas and cornea, susceptibility
CC diagnosis of genetic diseases and identifying individuals
XX
SQ Sequence 18 BP; 4 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match      2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 56 AGAGGAGTCTCTGCCT 72
   |||||
Dd 2 AGAGGAGTCTCTGCCT 18

RESULT 858
AAD38945
ID AAD38945 standard; DNA; 18 BP.
XX
AC AAD38945;
XX
DT 23-SEP-2002 (first entry)
XX
DE Human Her-2 antisense oligonucleotide, ISIS #27972.
XX
KW Human; Her-2; epidermal growth factor receptor 2; infection; cancer;
KW hyperproliferative disorder; prophylaxis; inflammation; antisense;
KW tumour; gene therapy; phosphorothioate backbone; ss.
XX
OS Homo sapiens.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..18
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone"
FT modified_base 1..4
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 1
FT /*tag= d
FT /mod_base= m5c
FT modified_base 7
FT /*tag= e
FT /mod_base= m5c
FT modified_base 12
FT /*tag= f
FT /mod_base= m5c
FT modified_base 15..18
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX
PN WO200222636-A1.
XX
PD 21-MAR-2002.
XX
PF 12-SEP-2001; 2001WO-US028572.
XX
PR 15-SEP-2000; 2000US-00663834.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett CP, Cowse LM;
XX
WPI; 2002-471192/50.
XX
PT Novel antisense oligonucleotide which modulates the expression of Human
PT Epidermal Growth Factor receptor, Her2, is useful for treating tumors
PT inflammation or to prevent infection in humans.
XX
PS Claim 1; Page 89; 116pp; English.
XX
CC The invention relates to antisense compounds targetted to a nucleic acid
CC molecule encoding Her2 (human Epidermal Growth Factor receptor 2) that
CC specifically hybridises with and inhibits the expression of Her2.
CC Antisense compounds of the invention are used for treating disorders or
CC conditions associated with Her2 such as hyperproliferative disorders e.g.
CC lung, breast, gastric, oesophageal, colon bladder, salivary, neural or
CC cardiac cancer. They are also useful prophylactically e.g. to prevent or
CC delay infection, inflammation and tumour formation. The invention is also
CC used in gene therapy. The present sequence is an antisense
CC oligonucleotide targetted to human Her-2
XX
SQ Sequence 18 BP; 4 A; 3 C; 9 G; 2 T; 0 U; 0 Other;
```

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 26 CGAGGGCTGGCGACGAAG 42
 DB 1 CGAAGGCTGGGCTGAAG 17

RESULT 859

AAD27252
 ID AAD27252 standard; DNA; 18 BP.
 AC AAD27252;
 DT 09-APR-2002 (first entry)
 XX
 DE Primer used in the exemplification of the invention.
 XX
 KW Picric acid degradation gene; cyclohexanol degradation; heavy metal;
 KW inhibitory effect; chemical; environmental pollutant; anaerobiosis;
 KW oxidative damage; pathogenesis; primer; ss.
 XX
 OS Unidentified.
 XX
 PN US6329151-B1.
 XX
 PD 11-DEC-2001.
 XX
 PF 05-SEP-2000; 2000US-00655270.
 XX
 PR 03-SEP-1999; 99US-0152542P.
 XX
 PA (DUPO) DU PONT DE NEMOURS & CO E I.
 XX
 PI Rouviere PE;
 XX
 DR WPI; 2002-121127/16.
 XX

PT Identifying differentially expressed genes, by amplifying total RNA of
 PT first microbial cell population that is contacted with stimulating agent
 PT and of a second population using arbitrary primers, and comparing them.
 XX
 PS Example 5; Col 5; Sipp; English.

CC The invention relates to a reliable and rapid method to identify
 CC differentially expressed genes in microbes. The method relies on the use
 CC of a large number of arbitrarily primed PCR reactions. The method is
 CC useful for identifying differentially expressed genes in microbes, and
 CC for distinguishing genetic differences between two populations of cells
 CC which differ in genotype. This method is useful for identifying the DNA
 CC sequences of genes involved in the degradation of the picric acid from
 CC Rhodococcus erythropolis strain HL PM-1, and genes involved in
 CC cyclohexanol degradation from a consortium of organisms, or to detect
 CC CDNA fragments from differentially expressed mRNAs. This method is useful
 CC for examining the inhibitory effects of various treatments such as
 CC chemicals, environmental pollutants, heavy metals, changes in
 CC temperature, changes in pH, agents producing oxidative damage, agents
 CC producing DNA damage, anaerobiosis, pathogenesis, and changes in nitrate
 CC availability on mRNA levels. The present sequence is an universal
 CC reamplification primer used in the exemplification of the invention
 XX
 SQ Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 178 AGTCCAAGGCATATC 194
 DB 1 AGTCCACGGCATATC 17

RESULT 860
 ABT11916
 ID ABT11916 standard; DNA; 18 BP.
 XX
 AC ABT11916;
 XX
 DT 19-DEC-2002 (first entry)
 XX
 DE Neublabin DNA related PCR primer.
 XX
 KW Nootropic; neuroprotective; antiparkinsonian; anticonvulsant; analgesic;
 KW tranquiliser; antidiabetic; ophthalmological; neurodegenerative disorder;
 KW neublabin; ischemic neuronal damage; traumatic brain injury; diabetes;
 KW peripheral neuropathy; neuropathic pain; Alzheimer's disease; glaucoma;
 KW Huntington's disease; Parkinson's disease; amyotrophic lateral sclerosis;
 KW memory impairment; renal disease; PCR; primer; ss.
 XX
 OS Unidentified.
 XX
 PN WO200272826-A2.
 XX
 PD 19-SEP-2002.
 XX
 PF 12-MAR-2002; 2002WO-EP002691.
 XX
 PR 12-MAR-2001; 2001US-00804615.
 XX
 PA (BIOJ) BIOGEN INC.
 PA (NSGE-) NS GENE AS.
 XX
 PI Sah DWY, Johansen TE, Rossumando A;
 XX
 DR WPI; 2002-713515/77.
 XX
 PT New truncated neublabin polypeptides lacking one or more amino-terminal
 PT amino acids of a mature neublabin polypeptide useful for treating
 PT neurodegenerative disorders, e.g. peripheral neuropathy, neuropathic
 PT pain, brain injury.
 XX
 PS Disclosure; Fig 8; 138pp; English.
 XX
 CC The invention relates to a truncated neublabin polypeptide comprising an
 CC amino acid terminus that lacks one or more amino-terminal amino acids of
 CC a mature neublabin polypeptide. The polypeptides and nucleic acids are
 CC useful for treating neurodegenerative disorders such as ischemic neuronal
 CC damage, traumatic brain injury, peripheral neuropathy, neuropathic pain,
 CC Alzheimer's disease, Huntington's disease, Parkinson's disease, renal
 CC amyotrophic lateral sclerosis, memory impairment, diabetes, growth, differentiation
 CC diseases, or glaucoma by moderating metabolism, growth, differentiation
 CC or survival of a nerve or neuronal cell. This polynucleotide sequence is
 CC a neublabin PCR primer of the invention
 XX
 SQ Sequence 18 BP; 1 A; 6 C; 9 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 131 GCTGGCCCGCTGGCGG 147
 DB 1 GCTGGCCCGCTGGCGG 17

RESULT 861
 ACD42854/c
 ID ACD42854 standard; DNA; 18 BP.
 XX
 AC ACD42854;
 XX
 DT 09-SEP-2003 (first entry)
 XX
 DE Secreted and transmembrane protein associated oligonucleotide #163.
 XX

KW Human; secreted and transmembrane protein; PRO; virucide; gene therapy;
KW cell death; growth induction cascade; blood coagulation cascade;
KW viral infection; ss.
XX Homo sapiens.
OS US2003050239-A1.
PN 13-MAR-2003.
XX 15-OCT-2001; 2001US-00978191.
XX 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078866P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082787P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083336P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 06-MAY-1998; 98US-0084441P.
PR 07-MAY-1998; 98US-0084598P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085323P.
PR 13-MAY-1998; 98US-0085338P.
PR 15-MAY-1998; 98US-0085339P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085589P.
PR 15-MAY-1998; 98US-0085697P.
PR 15-MAY-1998; 98US-0085700P.
PR 15-MAY-1998; 98US-0085704P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086414P.
PR 22-MAY-1998; 98US-0086430P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087106P.
PR 28-MAY-1998; 98US-0087208P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98US-0021141.
PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98US-0109304P.
PR 22-DEC-1998; 98US-00202054.
PR 22-DEC-1998; 98US-00218517.
PR 23-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99US-00000106.
PR 05-MAR-1999; 99US-00254465.
PR 08-MAR-1999; 99US-0005028.
PR 10-MAR-1999; 99US-00265686.
PR 10-MAR-1999; 99US-0005190.
PR 12-MAR-1999; 99US-00267213.
PR 12-MAR-1999; 99US-0123957P.
PR 29-MAR-1999; 99US-0126773P.
PR 12-APR-1999; 99US-00284291.
PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131022P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99US-0134287P.
PR 14-MAY-1999; 99US-0134287P.
PR 02-JUN-1999; 99US-0010733.
PR 16-JUN-1999; 99US-012252.
PR 23-JUN-1999; 99US-0139557P.
PR 07-JUL-1999; 99US-0141037P.
PR 26-JUL-1999; 99US-0142680P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380142.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99US-0028313.
PR 02-DEC-1999; 99US-0028551.

PD 02-DEC-1999; 99WO-US028565.
 XX 16-DEC-1999; 99WO-US030095.
 PF 30-DEC-1999; 99WO-US031243.
 XX 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 XX 06-JAN-2000; 2000WO-US000277.
 PA 06-JAN-2000; 2000WO-US003376.
 XX 11-FEB-2000; 2000WO-US003565.
 PI 18-FEB-2000; 2000WO-US004341.
 XX 24-FEB-2000; 2000WO-US005004.
 DR 02-MAR-2000; 2000WO-US005841.
 XX 10-MAR-2000; 2000WO-US006319.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 17-MAY-2000; 2000WO-US013705.
 XX 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 XX 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000US-00709238.
 PR 27-NOV-2000; 2000US-00723749.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000US-00747259.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 22-MAR-2001; 2001US-00816744.
 PR 22-MAR-2001; 2001US-00816920.
 PR 10-MAY-2001; 2001US-00854208.
 PR 25-MAY-2001; 2001US-00854280.
 PR 01-JUN-2001; 2001US-00872035.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 30-JUL-2001; 2001US-00918585.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DJ;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 149 GGAGCGGCTTCGACT 165
 DB 17 GGAGTCGACTTCCACT 1
 RESULT 862
 ABZ68345/c
 ID ABZ68345 standard; DNA; 18 BP.
 XX
 AC ABZ68345;
 XX
 DT 22-APR-2003 (first entry)
 DE PCR primer VPH1 used for amplification of vph marker.
 XX
 KW Genetic disruption; mutation; bacterial cell; transposable element; vph;
 KW PCR; primer; ss.
 XX Synthetic.
 OS
 XX WO2003002738-A1.
 PN
 XX

PD 09-JAN-2003.
 XX 24-JUN-2002; 2002WO-GB002884.
 PF 28-JUN-2001; 2001GB-00015894.
 XX
 PA (PLAN-) PLANT BIOSCIENCE LTD.
 XX
 PI Fowler K, Kieser TE;
 XX
 DR NPI; 2003-201505/19.
 XX
 PT Generating a mutation in a bacterial host cell (e.g. Streptomyces spp.),
 PT comprising providing a bacterial donor cell (e.g. Escherichia coli)
 PT comprising a plasmid and introducing the plasmid to the host cell by
 PT conjugation.
 XX
 PS Example 1; Page 29; 69pp; English.
 XX
 CC The specification describes a method for generating genetic disruption
 CC (mutation) in bacterial cells. The method comprises providing a bacterial
 CC donor cell having a plasmid which comprises a transposable element
 CC encoding functions to enable transposition of the transposable element
 CC into the host cell nucleic acid and comprising a marker gene and an
 CC origin of transfer; and introducing the plasmid from the donor cell to
 CC the host cell by conjugation. The method is useful in generating genetic
 CC disruptions in bacterial host cells, especially Streptomyces species, and
 CC more particularly for generating libraries of bacterial host cells having
 CC such disruptions. PCR primers ABZ68345-46 were used to amplify the vph
 CC marker from plasmids of the invention
 XX
 SQ Sequence 18 BP; 1 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 208 AAGCAGAGACTCGGTG 224
 DB 17 AAGCAGACCACCCGGTG 1
 RESULT 863
 ACA63889/c
 ID ACA63889 standard; DNA; 18 BP.
 XX
 AC ACA63889;
 XX
 DT 16-JUN-2003 (first entry)
 DE Novel human secreted and transmembrane protein related primer #215.
 XX
 KW Human; secreted and transmembrane protein; PRO; antiinflammatory;
 KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;
 KW antidiabetic; gene therapy; inflammatory disease; organ failure;
 KW atherosclerosis; cardiac injury; infertility; birth defect;
 KW premature aging; AIDS; cancer; diabetic complication; chromosome mapping;
 KW gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;
 KW tissue typing; PCR; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PF US2002192706-A1.
 XX
 PD 19-DEC-2002.
 XX
 PF 24-OCT-2001; 2001US-00999832.
 XX
 PR 17-OCT-1997; 97US-0062250P.
 PR 03-NOV-1997; 97US-0064249P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 10-MAR-1998; 98US-0077450P.
 PR

PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 17-MAR-1998; 98US-00040220.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079658P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 30-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 31-MAR-1998; 98US-0080105P.
 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080165P.
 PR 31-MAR-1998; 98US-0080194P.
 PR 01-APR-1998; 98US-0080327P.
 PR 01-APR-1998; 98US-0080328P.
 PR 01-APR-1998; 98US-0080333P.
 PR 01-APR-1998; 98US-0080334P.
 PR 08-APR-1998; 98US-0081049P.
 PR 08-APR-1998; 98US-0081070P.
 PR 09-APR-1998; 98US-0081071P.
 PR 09-APR-1998; 98US-0081195P.
 PR 09-APR-1998; 98US-0081203P.
 PR 09-APR-1998; 98US-0081229P.
 PR 15-APR-1998; 98US-0081817P.
 PR 15-APR-1998; 98US-0081819P.
 PR 15-APR-1998; 98US-0081838P.
 PR 15-APR-1998; 98US-0081952P.
 PR 15-APR-1998; 98US-0081955P.
 PR 21-APR-1998; 98US-0082568P.
 PR 21-APR-1998; 98US-0083569P.
 PR 22-APR-1998; 98US-0082700P.
 PR 22-APR-1998; 98US-0082704P.
 PR 22-APR-1998; 98US-0082797P.
 PR 22-APR-1998; 98US-0082804P.
 PR 23-APR-1998; 98US-0082796P.
 PR 07-OCT-1998; 98WO-US021141.
 PR 20-NOV-1998; 98WO-US024855.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US0005028.
 PR 10-MAR-1999; 99WO-US0005190.
 PR 14-MAY-1999; 99WO-US010733.
 PR 02-JUN-1999; 99WO-US012252.
 PR 30-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 30-DEC-1999; 99WO-US031243.
 PR 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US0003565.
 PR 18-FEB-2000; 2000WO-US0004341.
 PR 24-FEB-2000; 2000WO-US0005004.
 PR 02-MAR-2000; 2000WO-US0005841.
 PR 10-MAR-2000; 2000WO-US0006319.
 PR 21-MAR-2000; 2000WO-US0007532.
 PR 30-MAR-2000; 2000WO-US0008439.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 22-MAR-2001; 2001WO-US009552.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 XX (GETH) GENENTECH INC.
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 XX Ferrara N, Filvaroff E, Fong S, Garber H, Gerritsen ME;
 XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Shelton DL;
 XX Kijavini IJ, Ruo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Williams PM, Wood WI;
 XX WPI; 2003-328860/31.
 XX New secreted and transmembrane nucleic acids and polypeptides, designated
 XX as PRO, useful for treating inflammation, organ failure, atherosclerosis,
 XX cardiac injury, infertility, birth defects, premature aging, AIDS, or
 XX cancer.
 XX Example 95; Page 173; 453pp; English.
 XX The invention describes an isolated nucleic acid (I) comprising, or which
 XX is at least 80 % sequence identity to, or the full-length coding sequence
 XX of, any of 118 300-2100 nucleotide sequences, which encodes its
 XX corresponding PRO polypeptide selected from 118 100-700 amino acid
 XX sequences, all given in the specification. The nucleic acids and
 XX polypeptides are useful for treating inflammatory diseases, organ
 XX failure, atherosclerosis, cardiac injury, infertility, birth defects,
 XX premature aging, AIDS, cancer, or diabetic complications. The nucleic
 XX acids are useful as hybridisation probes, in chromosome and gene mapping,
 XX and in generating antisense RNA or DNA. The polypeptides are useful as
 XX pharmaceuticals, diagnostics, biosensors or bioeffectors. Both are useful
 XX in tissue typing. This sequence represents a novel human secreted and
 XX transmembrane PRO polypeptide associated primer
 XX Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
 XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
 XX Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 149 GGAGCGCGCTTCGACT 165
 DB 17 GGAGTCGACTTCACCT 1
 RESULT 864
 ACA72053/c
 ID ACA72053 standard; DNA; 18 BP.
 XX ACA72053;
 AC ACA72053;
 XX 11-AUG-2003 (first entry)
 XX Human PRO polypeptide associated oligonucleotide SEQ ID NO 519.
 XX Human; ds; thrombolytic agent; interferon; interleukin; cytokine;
 XX erythropoietin; colony stimulating factor; cancer; colorectal carcinoma;
 XX apoptosis related condition; AIDS; amyotrophic lateral sclerosis; disease;
 XX inflammatory disease; asthma; atherosclerosis; neurodegenerative disease;
 XX gastrointestinal disorder; Alzheimer's disease; Parkinson's disease;
 XX hypertension; myocardial ischaemia; kidney disease; carcinogenesis;
 XX glomerulonephritis; lung disease; pulmonary hypertension; preclampsia;
 XX bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;
 XX inflammatory bowel disease; reproductive disorder; premature labour.

OS Homo sapiens.
 XX US2002177553-A1.
 EN
 XX 28-NOV-2002.
 PD
 XX
 XX 15-OCT-2001; 2001US-00978192.
 XX 17-OCT-1997; 97US-0062250P.
 XX 03-NOV-1997; 97US-0064249P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0077800P.
 PR 17-MAR-1998; 98US-00040220.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079256P.
 PR 17-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 26-JUN-1998; 98US-00105413.
 PR 07-OCT-1998; 98US-00168978.
 PR 07-OCT-1998; 98US-0021141.
 PR 02-NOV-1998; 98US-00184216.
 PR 06-NOV-1998; 98US-00187368.
 PR 20-NOV-1998; 98US-0024855.
 PR 07-DEC-1998; 98US-00202054.
 PR 22-DEC-1998; 98US-00218517.
 PR 05-JAN-1999; 99US-00000106.
 PR 05-MAR-1999; 99US-00254465.
 PR 08-MAR-1999; 99US-00050208.
 PR 10-MAR-1999; 99US-00265686.
 PR 10-MAR-1999; 99US-00051190.
 PR 12-MAR-1999; 99US-00267213.
 PR 12-APR-1999; 99US-00284231.
 PR 14-MAY-1999; 99US-00311832.
 PR 14-MAY-1999; 99US-00107333.
 PR 02-JUN-1999; 99US-0012252.
 PR 25-AUG-1999; 99US-00380137.
 PR 25-AUG-1999; 99US-00380138.
 PR 30-NOV-1999; 99US-00380142.
 PR 02-DEC-1999; 99US-0028851.
 PR 02-DEC-1999; 99US-00288565.
 PR 16-DEC-1999; 99US-0030095.
 PR 30-DEC-1999; 99US-00311243.
 PR 05-JAN-2000; 99US-00311274.
 PR 06-JAN-2000; 2000US-0000219.
 PR 06-JAN-2000; 2000US-0000277.
 PR 06-JAN-2000; 2000US-0003576.
 PR 11-FEB-2000; 2000US-0003565.
 PR 18-FEB-2000; 2000US-0004341.
 PR 24-FEB-2000; 2000US-0005004.
 PR 02-MAR-2000; 2000US-0005841.
 PR 10-MAR-2000; 2000US-0006319.
 PR 21-MAR-2000; 2000US-0007532.
 PR 30-MAR-2000; 2000US-0008439.
 PR 17-MAY-2000; 2000US-0013705.
 PR 22-MAY-2000; 2000US-0014042.
 PR 30-MAY-2000; 2000US-0014941.
 PR 02-JUN-2000; 2000US-0015264.

PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000US-00709238.
 PR 27-NOV-2000; 2000US-00723749.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000US-00747259.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 22-MAR-2001; 2001US-00816744.
 PR 22-MAR-2001; 2001US-00816920.
 PR 22-MAR-2001; 2001WO-US009552.
 PR 10-MAY-2001; 2001US-00854308.
 PR 10-MAY-2001; 2001WO-US054280.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021086.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 30-JUL-2001; 2001US-00918585.
 XX
 PA (GETH) GENENTECH INC.
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Shelton DL;
 PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NP, Roy MA, Stewart TA, Williams PW, Wood WI;
 PI Stewart TA, Tumas D, Williams PW, Wood WI;
 XX
 DR WPI; 2003-328499/31.
 XX
 DR
 XX
 PT New isolated PRO polypeptides e.g. PRO213, PRO274 and PRO300, for use as
 PT pharmaceuticals, diagnostics, biosensors and bioreactors, for identifying
 PT modulators of receptor-ligand interactions.
 PT
 XX
 PS Disclosure; SEQ ID NO 519; 55pp; English.
 XX
 CC The invention relates to an isolated secreted and transmembrane
 CC polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful
 CC in PRO polypeptide detection methods. The PRO polypeptide is useful for
 CC linking a bioactive molecule to a cell. The PRO polypeptide or an
 CC antibody against it is useful for modulating a biological activity of a
 CC cell. The PRO polypeptide is useful in industrial applications including
 CC pharmaceuticals, diagnostics, biosensors and bioreactors. The PRO
 CC polypeptide is also useful as a thrombolytic agent, interferon,
 CC interleukin, erythropoietin, colony stimulating factor and other
 CC cytokines. The PRO polypeptide is useful for treating disease such as
 CC cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS,
 CC amyotrophic lateral sclerosis; inflammatory disease e.g. asthma,
 CC atherosclerosis; neurodegenerative disease e.g. Alzheimer's disease,
 CC Parkinson's disease; cardiovascular disease e.g. hypertension and
 CC myocardial ischaemia; kidney disease e.g. renal failure and
 CC glomerulonephritis; lung disease e.g. pulmonary hypertension, bronchial
 CC asthma; gastrointestinal disorders e.g. gastric ulcer and inflammatory
 CC bowel disease; reproductive disorders e.g. premature labour and
 CC preclampsia; carcinogenesis. The present sequence represents a PRO
 CC polypeptide associated oligonucleotide of the invention. Note: The
 CC sequence data for this patent did not form part of the printed
 CC specification but was obtained in electronic format directly from USPTO
 CC at seqdata.uspto.gov/sequence.html?DocID=2002017753
 XX
 SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
 XX

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 149 GGAGGCGCGCTTCGACT 165
 DB 17 GGAGGTCGACTTCCACT 1

RESULT 865
 ABX92693/C
 ID ABX92693 standard; DNA; 18 BP.
 XX AC
 XX AC ABX92693;
 XX DT
 XX DT 08-MAY-2003 (first entry)
 XX DE Human PRO DNA PCR primer SEQ ID No 519.
 XX KW Human; PRO polypeptide; secreted and transmembrane protein;
 KW immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;
 KW cardiac insufficiency; nervous system disorder; kidney disorder;
 KW bone disorder; cartilage disorder; arthritis; tumour; wound healing;
 KW Genetic disorder; cytostatic; antidiabetic; antiinflammatory;
 KW antiarthritic; anti-tumour; vulnerary; antianaemic; dermatological;
 KW cardiant; PCR; primer; ss.
 XX OS Homo sapiens.
 XX PN US2002169284-A1.
 XX PN 14-NOV-2002.
 XX PD
 XX PF 16-OCT-2001; 2001US-00978697.
 XX PR 26-MAY-1981; 81US-00267213.
 PR 17-OCT-1997; 97US-0062250P.
 PR 03-NOV-1997; 97US-0064249P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0065364P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 17-MAR-1998; 98US-00040220.
 PR 20-MAR-1998; 98US-0078888P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079656P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 26-JUN-1998; 98US-00105413.
 PR 07-OCT-1998; 98US-00168978.
 PR 07-OCT-1998; 98US-0021141.
 PR 02-NOV-1998; 98US-00184216.
 PR 06-NOV-1998; 98US-00187368.
 PR 20-NOV-1998; 98US-0024855.
 PR 07-DEC-1998; 98US-00202054.
 PR 22-DEC-1998; 98US-00218517.
 PR 05-JAN-1999; 98US-00244465.
 PR 05-JAN-1999; 98US-00254465.
 PR 08-MAR-1999; 98US-002505028.
 PR 10-MAR-1999; 98US-00265686.
 PR 10-MAR-1999; 98US-00265686.
 PR 12-MAR-1999; 98US-00284291.
 PR 14-MAY-1999; 98US-00311832.
 PR 14-MAY-1999; 98US-00311832.
 PR 02-JUN-1999; 98US-00311832.
 PR 25-AUG-1999; 98US-00380137.
 PR 25-AUG-1999; 98US-00380138.
 PR 25-AUG-1999; 98US-00380138.
 PR 25-AUG-1999; 98US-00380142.
 PR 30-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028555.
 PR 16-DEC-1999; 99WO-US030095.
 PR 30-DEC-1999; 99WO-US031243.
 PR 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000US-00709238.
 PR 27-NOV-2000; 2000US-00723749.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000US-00747259.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 22-MAR-2001; 2001US-00816744.
 PR 22-MAR-2001; 2001US-00816920.
 PR 10-MAY-2001; 2001WO-US009552.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854280.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 23-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 30-JUL-2001; 2001US-00918585.
 XX (GETH) GENENTECH INC.
 XX Ashkenazi A, Baker KP, Botstein D, Desnovers L, Eaton D;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Shelton DL;
 PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Williams PM, Wood WI;
 PI Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2003-288163/28.
 XX Novel secreted and transmembrane polypeptides and polynucleotides
 PT encoding them useful for treating cancer, kidney diseases, bone,
 PT cartilage disorders and immune deficiencies.
 XX Example 95; Page 179; 459pp; English.
 XX The present invention relates to the isolation of novel human PRO
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO
 CC polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for linking
 CC bioactive molecules to cells expressing PRO polypeptides, for modulating
 CC biological activities of cells expressing PRO polypeptides, and for
 CC identifying agonists or antagonists. The bioactive molecule may be a
 CC toxin, radiolabel or antibody, and causes apoptosis or death of the cell.
 CC The PRO polypeptides are useful for treating immune disorders, diabetes
 CC or hyper- or hypo-insulinaemia, cardiac insufficiency, nervous system
 CC disorders, kidney disorders, bone and cartilage disorders or arthritis,
 CC tumours, and wound healing. The polynucleotide sequences encoding PRO
 CC polypeptides are useful as hybridisation probes, in chromosome and gene

CC mapping, in the generation of antisense RNA and DNA, in the preparation
 CC of PRO polypeptides, for generating transgenic animals or knockout
 CC animals, for the genetic analysis of individuals with genetic disorders,
 CC and in gene therapy. The present sequence represents a PCR primer used in
 CC the examples of the present invention. Note: The sequence data for this
 CC patent was obtained in electronic format directly from the USPTO web site
 CC at seqdata.uspto.gov/psipdidentry.html

XX SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGGCTTCACT 165
 ||||| ||||| |||||
 Db 17 GGAGGCTCACTCACT 1

RESULT 866

ACC45656/c
 ID ACC45656 standard; DNA; 18 BP.

XX AC ACC45656;

XX DT 02-JUN-2003 (first entry)

XX DE Human HEM STS marker forward primer #118.

XX KW Human; high bone mass; HEM; LRP5; LRP6; transgenic; bone mass modulation;
 KW gene therapy; bone density modulation; bone strength; trabecular number;
 KW bone size; bone tissue connectivity; bone disease; osteoporosis; PCR;
 KW osteomalacia; rickets; Paget's disease; neoplasm of the bone; primer; ss.
 XX OS Homo sapiens.

XX FN WO200292764-A2.

XX PN 21-NOV-2002.

XX PD 13-MAY-2002; 2002WO-US014876.

XX PP 11-MAY-2001; 2001US-0290071P.

XX PR 17-MAY-2001; 2001US-0291311P.

XX PR 01-FEB-2002; 2002US-0353058P.

XX PR 04-MAR-2002; 2002US-0361293P.

XX PA (GENO-) GENOME THERAPEUTICS CORP.

XX PA (AWHP) WYETH.

XX PI Babi J P, Bex FJ, Yaworsky PJ, Bodine PV;

XX DR WPI; 2003-129278/12.

XX PT New transgenic animals (e.g. mice), useful as models for studying bone
 PT density modulation, developing drugs for treating or preventing bone
 PT diseases (e.g. osteoporosis), or diagnosing diseases characterized by
 PT reduced bone density.

XX PS Disclosure; Page 55; 603pp; English.

XX CC The invention relates to novel transgenic animals expressing the high
 CC bone mass (HBM) gene, expressing the corresponding wild type HBM gene,
 CC comprising an alteration of the gene encoding LRP5 or LRP6, or expressing
 CC an LRP5 that is modulated by an altered gene control sequence introduced
 CC by homologous or non-homologous recombination. The transgenic animals are
 CC for the study of bone density modulation or bone mass modulation. The
 CC invention has osteopathic and cytostatic activity. The polynucleotides of
 CC the invention may have a use in gene therapy. The transgenic animals and
 CC nucleic acids are for the study of bone density modulation, where the
 CC bone mass is modulated relative to non-transgenic animals of the same
 CC species in more than one parameter selected from bone density, bone
 CC strength, trabecular number, bone size, or bone tissue connectivity. The

CC transgenic animals, nucleic acids and methods are useful for identifying
 CC molecules involved in bone development, and for developing pharmaceutical
 CC compositions, which may be employed for treating or preventing bone
 CC diseases, e.g. osteoporosis, osteomalacia, rickets, Paget's disease, or
 CC neoplasms of the bone. The transgenic animals and nucleic acids are also
 CC useful in methods for diagnosing diseases involved in bone development, is
 CC or characterized by reduced bone density or mass. The present sequence, is
 CC used in the exemplification of the invention

XX SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GGCCAGGAGTGAAACTG 17
 ||||| ||||| |||||
 Db 18 GGCAGGAGTGACTCTG 2

RESULT 867

ABX75208/c

ID ABX75208 standard; DNA; 18 BP.

XX AC ABX75208;

XX DT 25-MAR-2003 (first entry)

XX DE Human 216 gene allele specific oligonucleotide probe #39.

XX KW Human; mouse; ss; probe; gene 216; antiasthmatic; antiinflammatory;
 KW anorectic; chromosome 20p13-p12; single nucleotide polymorphism; SNP;
 KW gene therapy; respiratory disease; asthma; obesity;
 KW bronchial hyper-responsiveness; chronic obstructive pulmonary disease;
 KW adult respiratory distress syndrome; inflammatory bowel syndrome.

XX OS Homo sapiens.

XX PN WO200283077-A2.

XX PD 24-OCT-2002.

XX PF 15-APR-2002; 2002WO-US012063.

XX PR 13-APR-2001; 2001US-00834597.

XX PR 13-APR-2001; 2001WO-US012245.

XX PA (SCHE) SCHERING CORP.

XX PA (GENO-) GENOME THERAPEUTICS CORP.

XX PI Keith T, Little RD, Van Berdewegh P, Dupuis J, Del Mastro RG;

XX PI Simon J, Allen K, Pandit S;

XX DR WPI; 2003-092960/08.

XX PT New isolated gene 216 nucleic acids, useful for diagnosing, preventing or
 PT treating a disorder, such as asthma, bronchial hyper-responsiveness,
 PT chronic obstructive pulmonary disease, obesity or inflammatory bowel
 PT syndrome.

XX PS Example 10; Page 166; 650pp; English.

XX CC This invention relates to a novel isolated nucleic acid, gene 216,
 CC identified from human chromosome 20p13-p12. The invention also discloses
 CC regions of the 216 gene that contain single nucleotide polymorphisms
 CC (SNPs) which may be used as markers for disease susceptibility or
 CC severity. The nucleotides of the invention may have antiasthmatic,
 CC antiinflammatory or anorectic activities and may be used in gene therapy.
 CC The nucleic acids, antibodies or its fragments are useful for diagnosing,
 CC preventing or treating a disorder, such as respiratory diseases (e.g.
 CC asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary
 CC disease or adult respiratory distress syndrome), obesity, or inflammatory
 CC bowel syndrome. The nucleic acids are also useful for identifying

CC increased susceptibility of a subject to the disorders mentioned. The
CC nucleic acids can also be used as primers and templates for the
CC recombinant production of disorder-associated peptides or polypeptides,
CC for chromosome and gene mapping, or for tissue distribution studies. The
CC present sequence represents a gene 216 specific oligonucleotide probe
CC used in the scope of the invention
XX
SQ Sequence 18 BP; 1 A; 3 C; 9 G; 5 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY
92 CATCACCACGCTGTGACC 108
||| ||| ||| ||| |||
Db
17 CAGCACCCACAGCTGACC 1

RESULT 868	
ABZ79946/c	
ID	ABZ79946 standard; DNA; 18 BP.
XX	
AC	ABZ79946;
XX	
DT	19-MAY-2003 (first entry)
XX	
DE	Mycobacterium tuberculosis rpsI PCR primer SEQ ID NO:16.
XX	
KW	Mycobacterium tuberculosis; mutT2; alka; ogt; Rv3908; mutY; Rv3909; detection; multidrug resistance; multiple drug resistance; MDR;
KW	infection; PCR primer; ss.
XX	
OS	Mycobacterium tuberculosis.
OS	Synthetic.

FN WO2003016562-A2.
 XX
 PD 27-FEB-2003.
 XX
 XX
 PD 14-AUG-2002; 2002WO-EP009679.
 XX
 PD 14-AUG-2001; 2001US-0311824P.
 XX
 PD 21-AUG-2001; 2001US-0313523P.
 XX
 PD (INSP) INST PASTEUR.

PI Gicquel B;
XX
XX
DR WPI; 2003-256711/25.
XX
XX Predicting the epidemic character of a Mycobacterium tuberculosis isolate
XX and/or the acquisition of multiple drug resistance (MDR) by the isolate
XX by detecting an alteration in the DNA repair system of the isolate.
XX
PS Disclosure; Page 17; 83pp; English.

The present invention describes a method for predicting the epidemic character of a Mycobacterium tuberculosis isolate and/or a selective advantage to be maintained in the host and/or the acquisition of multiple drug resistance (MDR) by the isolate comprising detecting an alteration in the DNA repair system of the isolate. Also described: (1) detecting a Mycobacterium tuberculosis strain with a MDR phenotype; (2) a polynucleotide; (3) a kit for detecting Mycobacterium tuberculosis; (4) an Escherichia coli strain containing the plasmid pMYC2501; and (5) detecting in a patient infected by Mycobacterium tuberculosis a higher risk of being unable to eliminate the bacillus or of developing MDR tuberculosis. The method is useful for predicting the epidemic character of a Mycobacterium tuberculosis isolate and/or a selective advantage to be maintained in the host and/or the acquisition of MDR by the isolate. The present sequence represents a PCR primer for M. tuberculosis rps1, which is used in the exemplification of the present invention

Sequence 18 BP; 4 A; 5 C; 5 G; 4 T; 0 U; 0 Other;

```

Query Match      2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      282  GGCACCAAGCTGGTGAA 298
          | | | | | | | | | |
Db       18  GTCACCCAGTTGGTGAA 2

```

RESULT 869
ACA66434/c
ID ACA66434 standard; DNA; 18 BP.

ACA	ACA66434;	
AC		
XX		
DT	24-JUN-2003	(first entry)

Human secreted/transmembrane protein PRO298 PCR primer #3.

Human; ss; PCR; secreted protein; transmembrane protein; PRO; primer; malignancy; cancer; ovarian cancer; colorectal cancer; sarcoma; leukanaemia; lymphoma; inflammatory disease; necrosis; atherosclerosis; infertility; premature aging; psoriasis; inflammatory disease; renal disease; arthritis; immune-mediated alopecia; stroke; encephalitis; hepatitis; multiple sclerosis; gene therapy.

OS Homo sapiens.

XX PN US2003004102-A1.

XX
PD
02-JAN-2003.

15-OCT-2007 :

XX 17-OCT-1997. 97JIS-0062250P

PR 03-NOV-1997; 97US-0064249P.
03 13 NOV 1997. 97US-0065311D.

PR 21-NOV-1997; 97US-0066364P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077649P.

PR 13-MAR-1998; 98US-0078004P.

PR 17-MAR-1998; 98US-00040Z20.
PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.

PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P

PR	26-MAR-1998;	98US-0079656P.
PR	27-MAR-1998.	98US-0079653P.

PR 27-MAR-1998; 98US-0079664P.

PR 27-MAR-1998; 98US-0079728P.

PR 30-MAR-1998; 98US-0079920P.

PR 26-JUN-1998; 98US-00105413.

PR 07-OCT-1998; 98WO-US021141.

PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.

PR 20-NOV-1998; 98WO-US024855.
PR 07-DEC-1998; 98US-00202054.

PR 22-DEC-1998; 98US-00218517.
PR 05-JAN-1999; 99WC-115000106

PR	05-MAR-1999;	99US-00254465.
DP	08-MAR-1999.	99WC-US005038

PR 10-MAR-1999; 99US-00265686.

PR 12-MAR-1999; 99US-00267213.

specification; or (b) any of 94 nucleotide sequences fully defined in the specification; or the full length coding sequence of any these 94 nucleotide sequences. Also included are an isolated PRO polypeptide scoring at least 80% positives when compared to any of the PRO polypeptide sequences cited above (or an isolated PRO polypeptide having at least 80% amino acid sequence identity to: (a) an amino acid sequence encoded by the nucleotide deposited with ATCC numbers listed in the specification; (b) the PRO polypeptide, lacking its associated signal peptide; or (c) an extracellular domain of the PRO polypeptide, with or lacking its associated signal peptide), a vector comprising the nucleic acid molecule, a host cell comprising the vector (and producing a PRO polypeptide), a chimeric molecule comprising the PRO polypeptide fused to a heterologous amino acid sequence and an anti-PRO antibody. The PRO polypeptides or polynucleotides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These are particularly useful for detecting or treating e.g. malignancies or cancers (e.g. ovarian cancer, colorectal cancer, sarcoma, leukaemia or lymphoma), inflammatory disease, necrosis, atherosclerosis, infertility, premature aging, psoriasis, inflammatory disease, renal disease, arthritis, immune-mediated alopecia, stroke, encephalitis, hepatitis, or multiple sclerosis in mammals. The PRO polypeptides are useful in drug screening, particularly as targets for therapeutic intervention in these diseases, and in the diagnostic determination of the presence of these diseases. The PRO polypeptides are also useful as molecular weight markers or for chromosome identification. The PRO genes are useful as hybridisation probes, or for screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. The present sequence is a PCR primer used in the isolation of a cDNA encoding a PRO polypeptide

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e-02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGCGCGCTTCGACT 165
Db 17 GGAGGTGCTTCGACT 1

RESULT 870
ADA25058/C
ID ADA25058 standard; DNA; 18 BP.
AC ADA25058;
XX
XX 20-NOV-2003 (first entry)
XX
XX Secreted and transmembrane PRO protein associated primer #219.
XX Human; secreted and transmembrane protein; PRO; Gene; ss; tissue typing;
XX chromosome identification; vaccine; cancer; retinal disorder;
XX sports-related joint disorder; osteoarthritis; rheumatoid arthritis;
XX wound healing; obesity; diabetes; hearing loss;
XX cardiac insufficiency disorder; kidney disorder; nervous system disorder;
XX haemoglobin associated disorder; expressed sequence tag; EST.
OS Homo sapiens.
XX
XX US2003050241-A1.
PN
XX
XX 13-MAR-2003.
XX
XX 16-OCT-2001; 2001US-00978564.
XX
XX 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 21-NOV-1997; 97US-0065311P.
PR 10-MAR-1998; 98US-0066364P.
PR 11-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.

12-APR-1999; 99US-00284291.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380142.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000WO-US030873.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2001WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001US-00816920.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00318585.
XX
XX (GETH) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Filvaroff EJ, Fong S, Gao W, Gerber H, Gerritsen MB,
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
XX Kljavin LJ, Kuo SS, Napier MA, Pan J, Paoni NP, Roy MA, Shelton DL,
XX Stewart TA, Thomas D, Williams PW, Wood WI;
XX WPI; 2003-341189/32.
XX
XX New genes and secreted and transmembrane polypeptides (e.g. PRO337 or
XX PRO1559), useful for treating or diagnosing e.g. cancers,
XX atherosclerosis, infertility, stroke, encephalitis, hepatitis or multiple
XX sclerosis in mammals.
XX
XX Example 95; Page 180; 460pp; English.
XX
XX The invention relates to a new isolated nucleic acid molecule comprises a
XX sequence with at least 80% identity to: (a) a nucleotide encoding any of
XX 94 PRO polypeptides whose sequences are fully defined in the

PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081223P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083366P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083543P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084441P.
PR 07-MAY-1998; 98US-0084598P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085323P.
PR 13-MAY-1998; 98US-0085338P.
PR 13-MAY-1998; 98US-0085339P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085689P.
PR 15-MAY-1998; 98US-0085697P.

PR 15-MAY-1998; 98US-0085700P.
PR 15-MAY-1998; 98US-0085704P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086414P.
PR 22-MAY-1998; 98US-0086430P.
PR 22-MAY-1998; 98US-0086485P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087106P.
PR 28-MAY-1998; 98US-0087208P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 10-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98WO-US024855.
PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 98WO-US005028.
PR 10-MAR-1999; 98WO-US005190.
PR 12-MAR-1999; 98US-0123957P.
PR 29-MAR-1999; 98US-0126773P.
PR 21-APR-1999; 98US-0130232P.
PR 26-APR-1999; 98US-0131022P.
PR 28-APR-1999; 98US-0131445P.
PR 14-MAY-1999; 98US-0134287P.
PR 14-MAY-1999; 98WO-US010733.
PR 02-JUN-1999; 98WO-US012252.
PR 16-JUN-1999; 98US-0139557P.
PR 23-JUN-1999; 98US-0141037P.
PR 07-JUL-1999; 98US-0142680P.
PR 26-JUL-1999; 98US-0145698P.
PR 28-JUL-1999; 98US-0146222P.
PR 29-OCT-1999; 98US-0162506P.
PR 30-NOV-1999; 98WO-US028313.
PR 02-DEC-1999; 98WO-US028551.
PR 16-DEC-1999; 98WO-US028565.
PR 30-DEC-1999; 98WO-US031243.
PR 30-DEC-1999; 98WO-US031274.
PR 03-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US023328.
PR 24-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.

(GETH) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;

PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI; 2003-521814/49.
XX
XX New isolated PRO polypeptides for example extracellular, secreted and
PT membrane bound proteins, useful for modulating the biological activities
PT of cells and for treating, for example diabetes, cancer, rheumatoid
PT arthritis, and hearing loss.
XX
XX Example 95; Page 180; 461pp; English.
XX
XX The invention describes an isolated secreted and transmembrane (PRO)
CC polypeptide (I). PRO337 polypeptide is useful for detecting PRO4993
CC polypeptide in a sample, and vice versa. PRO725, PRO700 and PRO739 are
CC useful for detecting PRO1559 polypeptide in a sample, and PRO1559 is
CC useful for detecting PRO725, PRO700 and PRO739 in a sample. PRO4993 is
CC useful for linking a bioactive molecule to a cell expressing a PRO337
CC polypeptide, and PRO337 is useful for linking a bioactive molecule to a
CC cell expressing a PRO4993 polypeptide. PRO1559 is useful for linking a
CC bioactive molecule to a cell expressing a PRO735, PRO700 and PRO739
CC polypeptide, and PRO735, PRO700 and PRO739 polypeptides are useful for

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 149 GGAGGTCGCTTCGACT 165
DB 17 GGAGGTCGCTTCACT 1

RESULT 871
ACD30035/c
ID ACD30035 standard; DNA; 18 BP.
XX
XX ACD30035;
XX
XX 08-SEP-2003 (first entry)
XX
XX Novel human secreted and transmembrane protein related primer #217.
XX Human; secreted and transmembrane protein; PRO; cell death; neuropathy;
XX peripheral neuropathy; diabetic peripheral neuropathy;
XX AIDS-associated neuropathy; Charcot-Marie-Tooth disease;
XX Refsum's disease; Abetalipoproteinemia; Tangier disease;
XX Krabbe's disease; Metachromatic leukodystrophy; Fabry's disease;
XX Dejerine-Sottas syndrome; chromosome mapping; gene therapy;
XX PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX US2003050240-A1.
XX
XX 13-MAR-2003.
XX
XX 16-OCT-2001; 2001US-00978403.
XX
XX 17-OCT-1997; 97US-0062250P.
XX 03-NOV-1997; 97US-0064249P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066364P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077641P.
XX 11-MAR-1998; 98US-0077649P.
XX 12-MAR-1998; 98US-0077791P.
XX 13-MAR-1998; 98US-0078004P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078910P.
XX 20-MAR-1998; 98US-0078936P.

20-MAR-1998; 98US-0078939P.
25-MAR-1998; 98US-0079294P.
26-MAR-1998; 98US-0079656P.
27-MAR-1998; 98US-0079683P.
27-MAR-1998; 98US-0079684P.
27-MAR-1998; 98US-0079689P.
27-MAR-1998; 98US-0079728P.
27-MAR-1998; 98US-0079786P.
30-MAR-1998; 98US-0079920P.
30-MAR-1998; 98US-0079933P.
31-MAR-1998; 98US-0080105P.
31-MAR-1998; 98US-0080107P.
31-MAR-1998; 98US-0080165P.
31-MAR-1998; 98US-0080194P.
01-APR-1998; 98US-0080327P.
01-APR-1998; 98US-0080338P.
01-APR-1998; 98US-0080333P.
01-APR-1998; 98US-0080334P.
08-APR-1998; 98US-0081049P.
08-APR-1998; 98US-0081070P.
08-APR-1998; 98US-0081071P.
09-APR-1998; 98US-0081195P.
09-APR-1998; 98US-0081203P.
09-APR-1998; 98US-0081229P.
15-APR-1998; 98US-0081817P.
15-APR-1998; 98US-0081819P.
15-APR-1998; 98US-0081838P.
15-APR-1998; 98US-0081952P.
15-APR-1998; 98US-0081955P.
21-APR-1998; 98US-0082568P.
21-APR-1998; 98US-0082569P.
22-APR-1998; 98US-0082700P.
22-APR-1998; 98US-0082704P.
22-APR-1998; 98US-0082797P.
22-APR-1998; 98US-0082804P.
23-APR-1998; 98US-0082796P.
27-APR-1998; 98US-0083336P.
28-APR-1998; 98US-0083322P.
29-APR-1998; 98US-0083329P.
29-APR-1998; 98US-0083495P.
29-APR-1998; 98US-0083496P.
29-APR-1998; 98US-0083499P.
29-APR-1998; 98US-0083500P.
29-APR-1998; 98US-0083545P.
29-APR-1998; 98US-0083549P.
29-APR-1998; 98US-0083558P.
29-APR-1998; 98US-0083559P.
30-APR-1998; 98US-0083742P.
05-MAY-1998; 98US-0084366P.
06-MAY-1998; 98US-0084414P.
06-MAY-1998; 98US-0084412P.
07-MAY-1998; 98US-0084598P.
07-MAY-1998; 98US-0084600P.
07-MAY-1998; 98US-0084627P.
07-MAY-1998; 98US-0084639P.
07-MAY-1998; 98US-0084640P.
07-MAY-1998; 98US-0084643P.
13-MAY-1998; 98US-0085323P.
13-MAY-1998; 98US-0085338P.
13-MAY-1998; 98US-0085339P.
15-MAY-1998; 98US-0085573P.
15-MAY-1998; 98US-0085579P.
15-MAY-1998; 98US-0085580P.
15-MAY-1998; 98US-0085582P.
15-MAY-1998; 98US-0085689P.
15-MAY-1998; 98US-0085697P.
15-MAY-1998; 98US-0085700P.
15-MAY-1998; 98US-0085704P.
18-MAY-1998; 98US-0086023P.
22-MAY-1998; 98US-0086392P.
22-MAY-1998; 98US-0086414P.
22-MAY-1998; 98US-0086430P.

PI	22-MAY-1998;	98US-0086486P.	XX	Novel secreted and transmembrane polypeptide for modulating biological
PR	28-MAY-1998;	98US-0087098P.	PT	activity of cell expressing the polypeptide, identifying agonists or
PR	28-MAY-1998;	98US-0087106P.	PT	antagonists of polypeptide, and as molecular weight markers.
PR	26-MAY-1998;	98US-0087208P.	XX	Example 95; Page 177; 459pp; English.
PR	26-JUN-1998;	98US-0090863P.	XX	The invention describes an isolated, secreted and transmembrane
PR	26-JUN-1998;	98US-0091010P.	CC	polypeptide, termed PRO polypeptide (I). (I) is useful for detecting
PR	01-JUL-1998;	98US-0091359P.	CC	PRO493, PRO337, PRO1559, PRO725, PRO700 or PRO739 polypeptide, and for
PR	30-JUL-1998;	98US-0094651P.	CC	linking a bioactive molecule to a cell expressing the above polypeptides.
PR	11-SEP-1998;	98US-0100038P.	CC	The bioactive molecule is a toxin, radiolabel or an antibody and causes
PR	07-OCT-1998;	98US-0102114P.	CC	cell death. (I) is useful as therapeutic agent, in medical and industrial
PR	20-NOV-1998;	98US-0109304P.	CC	applications e.g. for treating neuropathy, especially peripheral
PR	20-NOV-1998;	98US-0109304P.	CC	neuropathy, diabetic peripheral neuropathy, AIDS-associated neuropathy,
PR	22-DEC-1998;	98US-0113296P.	CC	Charcot-Marie-Tooth disease, Refsum's disease, Abetalipoproteinemia,
PR	23-DEC-1998;	98US-0113621P.	CC	Tangier disease, Krabbe's disease, Metachromatic leukodystrophy, Fabry's
PR	05-JAN-1999;	98US-013000106.	XX	Query Match 2.9%; Score 12.2; DB 1; Length 18;
PR	08-MAR-1999;	99WO-US005028.	XX	Best Local Similarity 82.4%; Pred. No. 4.7e+02;
PR	10-MAR-1999;	99WO-US005190.	XX	Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
PR	12-MAR-1999;	99US-0123957P.	XX	
PR	29-MAR-1999;	99US-0126773P.	XX	
PR	21-APR-1999;	99US-0130232P.	XX	
PR	26-APR-1999;	99US-0131022P.	XX	
PR	28-APR-1999;	99US-0131445P.	XX	
PR	14-MAY-1999;	99US-0134287P.	XX	
PR	02-JUN-1999;	99WO-US010733.	XX	
PR	16-JUN-1999;	99WO-US012252.	XX	
PR	23-JUN-1999;	99US-0139557P.	XX	
PR	07-JUL-1999;	99US-0141037P.	XX	
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PR	29-OCT-1999;	99US-0146222P.	XX	
PR	30-NOV-1999;	99WO-US028313.	XX	
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PR	02-DEC-1999;	99WO-US028555.	XX	
PR	16-DEC-1999;	99WO-US030035.	XX	
PR	30-DEC-1999;	99WO-US031243.	XX	
PR	30-DEC-1999;	99WO-US031274.	XX	
PR	05-JAN-2000;	2000WO-US000219.	XX	
PR	06-JAN-2000;	2000WO-US000277.	XX	
PR	11-FEB-2000;	2000WO-US000376.	XX	
PR	18-FEB-2000;	2000WO-US003555.	XX	
PR	24-FEB-2000;	2000WO-US004341.	XX	
PR	02-MAR-2000;	2000WO-US005841.	XX	
PR	10-MAR-2000;	2000WO-US006319.	XX	
PR	21-MAR-2000;	2000WO-US007532.	XX	
PR	30-MAR-2000;	2000WO-US008439.	XX	
PR	17-MAY-2000;	2000WO-US013705.	XX	
PR	22-MAY-2000;	2000WO-US014042.	XX	
PR	30-MAY-2000;	2000WO-US014941.	XX	
PR	02-JUN-2000;	2000WO-US015264.	XX	
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PR	24-AUG-2000;	2000WO-US023328.	XX	
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PR	20-DEC-2000;	2000WO-US034956.	XX	
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PR	22-MAR-2001;	2001WO-US009552.	XX	
PR	25-MAY-2001;	2001WO-US017032.	XX	
PR	01-JUN-2001;	2001WO-US017800.	XX	
PR	29-JUN-2001;	2001WO-US019692.	XX	
PR	09-JUL-2001;	2001WO-US021066.	XX	
PR	30-JUL-2001;	2001WO-US021735.	XX	
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PA	(GETH) GENENTECH INC.		XX	
PI	Ashtkenaz AJ, Baker KP, Desnoyers D, Desnoyers L, Eaton DL;		XX	
PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;		XX	
PI	Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;		XX	
PI	Klavin IJ, Luo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;		XX	
XX	Stewart IA, Tumas D, Williams PW, Wood WL;		XX	
XX	WPI; 2003-503575/47.		XX	

PR	30-MAR-1998;	98US-0079923P.	PR	07-OCT-1998;	98US-00168978.
PR	31-MAR-1998;	98US-0080105P.	PR	07-OCT-1998;	98WO-US021141.
PR	31-MAR-1998;	98US-0080107P.	PR	02-NOV-1998;	98US-00184216.
PR	31-MAR-1998;	98US-0080165P.	PR	06-NOV-1998;	98US-00187368.
PR	31-MAR-1998;	98US-0080194P.	PR	20-NOV-1998;	98US-0103004P.
PR	01-APR-1998;	98US-0080327P.	PR	20-NOV-1998;	98WO-US024855.
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PR	01-APR-1998;	98US-0080333P.	PR	22-DEC-1998;	98US-00218517.
PR	01-APR-1998;	98US-0080334P.	PR	22-DEC-1998;	98US-0113296P.
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PR	08-APR-1998;	98US-0081195P.	PR	05-JAN-1999;	99WO-US000106.
PR	09-APR-1998;	98US-0081203P.	PR	05-JAN-1999;	99US-00254465.
PR	09-APR-1998;	98US-0081229P.	PR	08-MAR-1999;	99WO-US005028.
PR	15-APR-1998;	98US-0081817P.	PR	10-MAR-1999;	99US-00255686.
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PR	15-MAY-1998;	98US-0085573P.	PR	18-FEB-2000;	2000WO-US004341.
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PR	15-MAY-1998;	98US-0085580P.	PR	02-MAR-2000;	2000WO-US005841.
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PR	22-MAY-1998;	98US-0086430P.	PR	24-AUG-2000;	2000WO-US020710.
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PR	26-JUN-1998;	98US-0090863P.	PR	20-DEC-2000;	2000WO-US034956.
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PR	30-JUL-1998;	98US-0091359P.	PR	22-MAR-2001;	2001US-00816744.
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			PR	10-MAY-2001;	2001US-00854280.
			PR	21-MAY-2001;	2001US-00817092.
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			PR	01-JUN-2001;	2001WO-US017800.
			PR	05-JUN-2001;	2001US-00874503.
			PR	14-JUN-2001;	2001US-00882636.

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PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US0219692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
Query Match 2.98; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 149 GGAGGCGCGCTTCACT 165
Db 17 GGAGGTCGACTTCACT 1

RESULT 873
ACD29450/C
ID ACD29450 standard; DNA; 18 BP.
XX
XX AC ACD29450;
XX
XX DT 27-AUG-2003 (first entry)
XX
XX D2 Novel human secreted and transmembrane protein related primer #220.
XX
XX Human; secreted and transmembrane protein; PRO; viral infection;
KW tumour growth; retinal disorder; injury; sight loss;
KW retinitis pigmentosa; age-related macular degeneration;
KW sport-related joint problem; articular cartilage defect; osteoarthritis;
KW rheumatoid arthritis; wound healing; obesity; diabetes; insulinemia;
KW kidney disease; mesangial cell function; Berger disease; nephropathy;
KW celiac disease; dermatitis; Crohn disease; neuropathy;
KW cardiac insufficiency disorder; peripheral neuropathy;
KW diabetic peripheral neuropathy; autonomic neuropathy;
KW reduced motility of the gastrointestinal tract;
KW atony of the urinary bladder; post polio syndrome; Krabbe's disease;
KW Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease;
KW Refsum's disease; PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX US2003049633-A1.
XX
XX 13-MAR-2003.
XX
XX 16-OCT-2001; 2001US-00978585.
XX
XX 17-OCT-1997; 97US-0062250P.
XX 03-NOV-1997; 97US-0064249P.
XX 13-NOV-1997; 97US-0065311P.
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XX 20-MAR-1998; 98US-0078939P.
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XX 27-MAR-1998; 98US-0079786P.
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XX 31-MAR-1998; 98US-0080105P.
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XX 01-APR-1998; 98US-0080328P.
XX 01-APR-1998; 98US-0080333P.
XX 01-APR-1998; 98US-0080334P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 08-APR-1998; 98US-0081071P.
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XX 15-APR-1998; 98US-0081838P.
XX 15-APR-1998; 98US-0081952P.
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XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084411P.
XX 07-MAY-1998; 98US-0084598P.
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XX 07-MAY-1998; 98US-0084627P.
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XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 13-MAY-1998; 98US-0085323P.
XX 13-MAY-1998; 98US-0085338P.
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XX 15-MAY-1998; 98US-0085582P.
XX 15-MAY-1998; 98US-0085689P.
XX 15-MAY-1998; 98US-0085697P.
XX 15-MAY-1998; 98US-0085700P.
XX 15-MAY-1998; 98US-0085704P.
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XX 22-MAY-1998; 98US-0086392P.
XX 22-MAY-1998; 98US-0086414P.
XX 22-MAY-1998; 98US-0086430P.
XX 22-MAY-1998; 98US-0086486P.
XX 28-MAY-1998; 98US-0087098P.
XX 28-MAY-1998; 98US-0087106P.
XX 28-MAY-1998; 98US-0087208P.
XX 26-JUN-1998; 98US-00105413.
XX 26-JUN-1998; 98US-0090863P.
XX 26-JUN-1998; 98US-0091010P.

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PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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Db 17 GGAGGTCGACTTCCACT 1
RESULT 874
ADA24424/C
ID ADA24424 standard; DNA; 18 BP.
XX
AC ADA24424;
XX
DT 20-NOV-2003 (first entry)
XX PCR primer #1 for generating human TSL1L1 probe.
DE Human tumour suppressor gene; TSL1L1; cancer; carcinoma;
KW pre-critical stage; cancer therapy; chemical therapy; radiotherapy;
KW TSLC1; PCR; primer; ss.
XX Homo sapiens.
XX
XX US2003109016-A1.
XX
XX 12-JUN-2003.
XX
XX 29-AUG-2002; 2002US-00230335.
XX
XX 11-OCT-2001; 2001JP-00313966.
XX (PRES-) PRESIDENT NAT CANCER CENT.
XX (BMLB-) BML INC.
XX Murakami Y, Nomura S;
XX WPI; 2003-626209/59.
XX
XX New protein encoded by tumor suppressor gene, designated as TSL1L1 gene,
XX useful for preventing or treating cancers, predicting of prognosis of
XX cancer therapy, or diagnosing carcinoma in pre-clinical stages.
XX Example; Page 6; 20pp; English.
XX
XX The present invention relates to the isolation of a human tumour
XX suppressor gene, TSL1L1 (hTSL1L1), and the encoding protein. The TSL1L1 gene
XX and protein are useful for preventing and treating cancers. The gene is
XX useful for diagnosing carcinoma in pre-critical stages, qualitative
XX diagnosis of carcinoma, predicting the prognosis of cancer therapy, and
XX forecasting the sensitivity of a carcinoma to chemical therapy,
XX radiotherapy and gene therapy. The TSL1L1 protein is homologous the TSLC1
XX protein. The present sequence represents a PCR primer used to generate a
XX probe for human TSL1L1 cDNA.
SQ Sequence 18 BP; 5 A; 7 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 334 ACGACGAGGCGGCTG 350
Db 18 ATGTCGAGGCTGCTG 2
RESULT 875
ADE98354/C

PR 01-JUL-1998; 98US-0091359P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98US-00168978.
PR 02-NOV-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00184216.
PR 20-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98WO-US024855.
PR 22-DEC-1998; 98US-00218517.
PR 23-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99WO-US000106.
PR 05-MAR-1999; 99US-00254465.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99US-00265686.
PR 10-MAR-1999; 99WO-US005190.
PR 12-MAR-1999; 99US-00267213.
PR 12-MAR-1999; 99US-012957P.
PR 29-MAR-1999; 99US-0126773P.
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PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131022P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99US-0134287P.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 16-JUN-1999; 99US-0139557P.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0142680P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380142.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
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PR 16-DEC-1999; 99WO-US030036.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 11-FEB-2000; 2000WO-US000376.
PR 18-FEB-2000; 2000WO-US003565.
PR 24-FEB-2000; 2000WO-US004341.
PR 02-MAR-2000; 2000WO-US005084.
PR 10-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US006319.
PR 30-MAR-2000; 2000WO-US007532.
PR 17-MAY-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US013705.
PR 30-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US014941.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 28-FEB-2001; 2000WO-US034956.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001WO-US009552.
PR 10-MAY-2001; 2001US-00854208.
PR 25-MAY-2001; 2001US-00854280.
PR 01-JUN-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.

ID ADB98354 standard; DNA; 18 BP.
XX ADB98354;
AC
XX 04-DEC-2003 (first entry)
DT
XX Sequence tagged site #235 used to prepare Zmax1 (LRP5) gene region map.
DE
XX Osteopathic; Gene therapy; High Bone Mass; HBM; LRP5; Zmax1; LRP6;
KW bone mass modulation; osteoporosis; STS; sequence tagged site; ds.
KW
XX Homo sapiens.
OS
XX WO200292000-A2.
PN
XX 21-NOV-2002.
PD
XX 13-MAY-2002; 2002WO-US014877.
PF
XX 11-MAY-2001; 2001US-0290071P.
PR 17-MAY-2001; 2001US-0291311P.
PR 01-FEB-2002; 2002US-035058P.
PR 04-MAR-2002; 2002US-0361293P.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
PA (AMHP) WYETH.
XX
XX Allen K, Anisowicz A, Graham JR, Morales A, Yaworsky PJ, Liu W;
PI WPI; 2003-129214/12.
DR
XX New nucleic acid comprising a mutation in LRP5 or LRP6, useful for
PT diagnosing a HBM-like phenotype in a subject and for preparing a
PT composition for modulating bone mass and/or lipid levels in a subject
PT suffering from e.g. osteoporosis.
XX
PS Example 2; Page 62; 629pp; English.
XX
CC The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) and
CC LRP6 mutants, which results in a HBM-like phenotype when expressed in a
CC cell. The HBM-like phenotype results in bone mass modulation and/or lipid
CC level modulation. The invention is useful for diagnosing a HBM-like
CC phenotype in a subject and for preparing a composition for modulating
CC bone mass and/or lipid levels in a subject suffering from e.g.
CC osteoporosis. The present sequence is a sequence tagged site (STS)
CC marker, which was used to prepare a physical map of the Zmax1 (LRP5) gene
CC region.
XX
SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 GGCCAGGAGTGAACTG 17
Db 18 GGCCAGGAGTGACTTG 2
RESULT 876
ADB74025/c
ID ADB74025 standard; DNA; 18 BP.
ID
AC ADB74025;
XX
XX 04-DEC-2003 (first entry)
DT
XX Human PRO DNA PCR primer #218.
DE
XX Human; PRO polypeptide; secreted protein; transmembrane protein;
KW cell death; neuropathy; neuropathy related disease;
KW Charcot-Marie-Tooth disorder; Reifsum's disease; Krabbe's disease;
KW chromosome mapping; gene mapping; genetic disorder; septic shock;

KW antibacterial; immunosuppressive; neuroprotective; PCR; primer; ss.
XX
XX Homo sapiens.
XX US2003045462-A1.
XX
XX 06-MAR-2003.
PD
XX 16-OCT-2001; 2801US-00978608.
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XX 17-OCT-1997; 97US-0062250P.
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PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077832P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
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PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
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PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
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PR 01-APR-1998; 98US-0080334P.
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PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083336P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.

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/not_e= "OTHER = phosphorothioate backbone"

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XX 10-SEP-1992; 92US-00945289.
XX 10-SEP-1993; 93WO-JP001293.
XX 09-MAR-1995; 95US-00397220.
XX 30-MAY-1995; 95US-00452841.
XX 17-MAY-1996; 96US-00650093.
XX 10-DEC-1997; 97US-00988321.
XX 18-OCT-2000; 2000US-00690936.
XX (ANDE/) ANDERSON K P.
XX (HANE/) HANECAR R C.
XX (NOZA/) NOZAKI C.
XX (DORR/) DORR F A.
XX (KWOH/) KWOH T J.
XX Anderson KP, Hanecak RC, Nozaki C, Dorr FA, Kwoh TJ;
XX WPI; 2003-697202/66.
XX New oligonucleotide, useful for preparing a composition for detecting,
XX treating or preventing HCV-associated disease, e.g. HCV infection,
XX fulminant hepatitis, chronic active hepatitis, cirrhosis or
XX hepatocellular carcinoma.
XX Example 3; Page 11; 21pp; English.
XX The invention relates to a new hepatitis C virus (HCV) genomic or
XX messenger RNA antisense oligonucleotide. The oligonucleotide is useful
XX for preparing a composition for treating or preventing an HCV-associated
XX disease, e.g., HCV infection, fulminant hepatitis, chronic active
XX hepatitis, cirrhosis or hepatocellular carcinoma. Also for detection of
XX HCV, HCV infection and HCV associated diseases. The oligonucleotide gives
XX a more effective treatment than interferon alone with lower relapse
XX rates. The present sequence represents a HCV antisense oligonucleotide.
XX Sequence 18 BP; 2 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
SQ Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 261 ACGGTGCACCTGGAGCA 277
DB 18 ACCGTGCACCATGAGCA 2
RESULT 879
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XX AC ADA49743;
XX 04-DEC-2003 (first entry)
XX HCV antisense oligonucleotide ISIS 9559.
XX ss; hepatitis C virus; HCV; HCV-associated disease; HCV infection;
XX fulminant hepatitis; chronic active hepatitis; cirrhosis;
XX hepatocellular carcinoma; cancer; tumour; lower relapse rate; antisense.
XX Hepatitis C virus.
XX Key Location/Qualifiers
XX modified_base 1..18
XX /*tag= a
XX /mod_base= OTHER
XX /note= "OTHER = phosphorothioate backbone"

XX US2003171313-A1.
XX 11-SEP-2003.
XX 11-MAY-2001; 2001US-00853409.
XX 10-SEP-1992; 92US-00945289.
XX 10-SEP-1993; 93WO-JP001293.
XX 09-MAR-1995; 95US-00397220.
XX 30-MAY-1995; 95US-00452841.
XX 17-MAY-1996; 96US-00650093.
XX 10-DEC-1997; 97US-00988321.
XX 18-OCT-2000; 2000US-00690936.
XX (ANDE/) ANDERSON K P.
XX (HANE/) HANECAR R C.
XX (NOZA/) NOZAKI C.
XX (DORR/) DORR F A.
XX (KWOH/) KWOH T J.
XX Anderson KP, Hanecak RC, Nozaki C, Dorr FA, Kwoh TJ;
XX WPI; 2003-697202/66.
XX New oligonucleotide, useful for preparing a composition for detecting,
XX treating or preventing HCV-associated disease, e.g. HCV infection,
XX fulminant hepatitis, chronic active hepatitis, cirrhosis or
XX hepatocellular carcinoma.
XX Example 3; Page 11; 21pp; English.
XX The invention relates to a new hepatitis C virus (HCV) genomic or
XX messenger RNA antisense oligonucleotide. The oligonucleotide is useful
XX for preparing a composition for treating or preventing an HCV-associated
XX disease, e.g., HCV infection, fulminant hepatitis, chronic active
XX hepatitis, cirrhosis or hepatocellular carcinoma. Also for detection of
XX HCV, HCV infection and HCV associated diseases. The oligonucleotide gives
XX a more effective treatment than interferon alone with lower relapse
XX rates. The present sequence represents a HCV antisense oligonucleotide.
XX Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
SQ Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 261 ACGGTGCACCTGGAGCA 277
DB 17 ACCGTGCACCATGAGCA 1
RESULT 878
ADA49743/c
ID ADA49743 standard; DNA; 18 BP.
XX AC ADA49743;
XX 04-DEC-2003 (first entry)
XX HCV antisense oligonucleotide ISIS 9559.
XX ss; hepatitis C virus; HCV; HCV-associated disease; HCV infection;
XX fulminant hepatitis; chronic active hepatitis; cirrhosis;
XX hepatocellular carcinoma; cancer; tumour; lower relapse rate; antisense.
XX Hepatitis C virus.
XX Key Location/Qualifiers
XX modified_base 1..18
XX /*tag= a
XX /mod_base= OTHER
XX /note= "OTHER = phosphorothioate backbone"

23-JAN-2003 .

12-JUN-2002; 2002WO-EP006440.

13-JUN-2001; 2001NZ-00512341.

(FARB) BAYER AG.

Weber O, Fziederichs SM, Siegling A, Schlapp T, Mercer AA;
Fleming SB;

WPI; 2003-221750/21.

New polynucleotide and recombinant proteins of Parapoxvirus ovis, useful
for manufacturing a medicament for treating virus related disease, viral
infections, non-viral infections, proliferative disease or inflammatory
disease.

Example 1; Page 23; 51pp; English.

The invention relates to a novel purified and isolated polynucleotide
(N1) of Parapoxvirus ovis (PPVO) comprising a nucleotide sequence (S1,
not defined in the specification), or its complementary sequence,
fragment or functional variant. A polynucleotide of the invention has
vicide, anti-HIV, hepatotropic, antineoplastic, cytostatic,
vulnerable, antiasthmatic, anti-allergic, dermatological, antidiabetic,
immunosuppressive, antifungal, antimicrobial, antirheumatic, thrombotic,
proto-oncogene, anesthetic, and antibacterial activity. The polynucleotides
may have a use in gene therapy. The recombinant proteins encoded by the
polynucleotides, or recombinant viruses comprising a Vaccinia virus
genome and fragments of a PPVO genome are useful for manufacturing
pharmaceutical compositions for treating virus related disease (e.g.
hepatitis, papillomatosis, herpes virus infections, liver fibrosis, HIV
infections or influenza), viral infections, non-viral infections (e.g.
infections with mycobacteria, mycoplasma, amoeba or plasmodia),
proliferative diseases (e.g. cancer, leukaemia, warts or other skin
neoplasms), inflammatory disease (e.g. Crohn's disease, COPD, asthma or
conditions related to healing of wounds), allergic disease, and/or
autoimmune diseases (systemic lupus erythematosus, Sjogren's disease,
Hashimoto's thyroiditis, rheumatoid arthritis or diabetes mellitus). The
present sequence is used in the exemplification of the invention.

Sequence 18 BP; 2 A; 4 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 37 ACAGATGGCCACCAC 53
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Db 17 ACGTACTGCGCACGCC 1

RESULT 880
ADB54025
ID IDB54025 standard; DNA; 18 BP.
XX
AC ADB54025;
XX
DT 04-DEC-2003 (first entry)
XX
DE Oligonucleotide 17 used to analyse CpG positions within genomic DNA.
XX
KW colon cell proliferative disorder; non methylated CpG dinucleotide;
cytostatic; cancer; adenoma; carcinoma; cytosine methylation state; BS.
XX Unidentified.
OS
XX WO2003072821-A2.
PN
PD 04-SEP-2003.
XX
XX 27 SEP 2003. 2003WO-EP002035

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R	11-MAR-1998;	98US-0077641P.	PR	15-MAY-1998;	98US-0085700P.
R	11-MAR-1998;	98US-0077649P.	PR	15-MAY-1998;	98US-0085704P.
R	11-MAR-1998;	98US-0077791P.	PR	18-MAY-1998;	98US-0086023P.
R	12-MAR-1998;	98US-0078004P.	PR	22-MAY-1998;	98US-0086392P.
R	20-MAR-1998;	98US-0078886P.	PR	22-MAY-1998;	98US-0086414P.
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R	20-MAR-1998;	98US-0078939P.	PR	22-MAY-1998;	98US-0086486P.
R	25-MAR-1998;	98US-0079234P.	PR	28-MAY-1998;	98US-0087098P.
R	26-MAR-1998;	98US-0079663P.	PR	28-MAY-1998;	98US-0087106P.
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R	27-MAR-1998;	98US-0079728P.	PR	26-JUN-1998;	98US-0091010P.
R	30-MAR-1998;	98US-0079786P.	PR	01-JUL-1998;	98US-0091359P.
R	30-MAR-1998;	98US-0079920P.	PR	30-JUL-1998;	98US-0094651P.
R	31-MAR-1998;	98US-0079923P.	PR	11-SEP-1998;	98US-0100038P.
R	31-MAR-1998;	98US-0080105P.	PR	07-OCT-1998;	98WO-US021141.
R	31-MAR-1998;	98US-0080115P.	PR	20-NOV-1998;	98US-0109304P.
R	01-APR-1998;	98US-0080327P.	PR	20-NOV-1998;	98WO-US024855.
R	01-APR-1998;	98US-0080328P.	PR	23-DEC-1998;	98US-0113296P.
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R	15-APR-1998;	98US-0081952P.	PR	03-JUN-1999;	98WO-US012252.
R	15-APR-1998;	98US-0081955P.	PR	16-JUN-1999;	98US-0139557P.
R	21-APR-1998;	98US-0082568P.	PR	23-JUN-1999;	98US-0141037P.
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(GETH) GENENTECH INC.

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arthritis; rheumatoid arthritis;

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KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
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DB 17 GGAGGTCGACTTCCACT 1
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DE Human PRO 298 PCR primer #3.
XX
KW vulnery; virucide; neuroprotective; cytostatic; gene therapy;
KW tumour cell proliferation inhibitor;
KW secreted and transmembrane protein; PRO; viral infection; wound healing;
KW tissue growth; muscle generation; muscle regeneration;
KW ankyrotic lateral sclerosis; neuropathy; AIDS-associated neuropathy;
KW diabetic peripheral neuropathy; chromosome identification; antagonist;
KW tissue typing; immunohistochemical staining; primer; ss.
XX
OS Homo sapiens.
XX
PN US2003060406-A1.
XX
PD 27-MAR-2003.
XX
XX 30-JUL-2001; 2001US-00918585.
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XX 17-OCT-1997; 97US-0062250P.
XX 03-NOV-1997; 97US-0064249P.
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XX 21-NOV-1997; 97US-0066364P.
XX 10-MAR-1998; 98US-0077450P.
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XX 11-MAR-1998; 98US-0077641P.
XX 11-MAR-1998; 98US-0077649P.
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XX 13-MAR-1998; 98US-0078004P.
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XX 20-MAR-1998; 98US-0078936P.
XX 20-MAR-1998; 98US-0078939P.
XX 25-MAR-1998; 98US-0079294P.
XX 26-MAR-1998; 98US-0079656P.
XX 27-MAR-1998; 98US-0079663P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079689P.
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XX 30-MAR-1998; 98US-0079920P.
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XX 07-OCT-1998; 98WO-US021141.
XX 02-NOV-1998; 98US-00184216.
XX 06-NOV-1998; 98US-00187368.
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XX 98WO-US024855.
 XX 98US-00202054.
 XX 98US-00218517.
 XX 98WO-US000106.
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 XX 98US-00265686.
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 XX 98WO-US028551.
 XX 98WO-US028555.
 XX 98WO-US030095.
 XX 98WO-US031243.
 XX 98WO-US031274.
 XX 2000WO-US000219.
 XX 06-JAN-2000; 2000WO-US000217.
 XX 06-JAN-2000; 2000WO-US000376.
 XX 11-FEB-2000; 2000WO-US003565.
 XX 18-FEB-2000; 2000WO-US004341.
 XX 24-FEB-2000; 2000WO-US005004.
 XX 02-MAR-2000; 2000WO-US005841.
 XX 10-MAR-2000; 2000WO-US006319.
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 XX 01-JUN-2001; 2001WO-US017800.
 XX 05-JUN-2001; 2001US-00874503.
 XX 14-JUN-2001; 2001US-00882636.
 XX 19-JUN-2001; 2001US-00886342.
 XX 20-JUN-2001; 2001WO-US019692.
 XX 29-JUN-2001; 2001WO-US021066.
 XX 09-JUL-2001; 2001WO-US021735.
 (GETH) GENENTECH INC.
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Baton DL;
 XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 XX Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 XX Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2003-596568/56.
 XX Novel secreted and transmembrane polypeptides and polynucleotides
 XX encoding them, useful for treating wound healing, tissue growth and
 XX muscle generation and regeneration, amyotrophic lateral sclerosis or
 XX neuropathy.

XX Example 95; SEQ ID NO 519; 472pp; English.
 XX The invention describes an isolated secreted and transmembrane PRO
 XX polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615
 XX is useful in biotechnological and medical research, as well as in various
 XX industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,
 XX PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853,
 XX PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful
 XX therapeutically in vivo for lessening the effects of viral infection.
 XX PRO200 is useful for the treatment of wound healing, tissue growth and
 XX muscle generation and regeneration. PRO337 is useful for treating
 XX amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or
 XX diabetic peripheral neuropathy. A polynucleotide (II) encoding (I) is
 XX useful for generating transgenic animals or knockout animals which are
 XX useful in the development and screening of therapeutically useful
 XX reagents, as probes for generating a pool of sequences for identifying
 XX related PRO coding sequences, and to construct hybridisation probes for
 XX mapping the gene which encodes the PRO and for the genetic analysis of
 XX individuals with genetic disorders, for recombinantly expressing (I) and
 XX for chromosome identification. (I) is useful as molecular marker for
 XX protein electrophoresis purposes, and as therapeutic agents. (I) is also
 XX useful for screening compounds to identify those that mimic the PRO
 XX polypeptide (agonists) or prevent the effect of the PRO polypeptide
 XX (antagonists). (I) and (II) are useful for tissue typing. PRO antibodies
 XX are useful for immunohistochemical staining and/or assay of sample
 XX fluids. Anti-PRO antibodies are useful in diagnostic assays for PRO e.g.
 XX detecting its expression in specific cells, tissues or serum, and for
 XX affinity purification of PRO from recombinant cell culture or natural
 XX sources. This sequence represents a human secreted and transmembrane PRO
 XX protein associated primer.
 XX SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
 Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 149 GGAGGCGGCTTCGACT 165
 Db 17 GGAGGCGGCTTCGACT 1
 RESULT 886
 ADC69115/c
 ID ADC69115 standard; DNA; 18 BP.
 AC ADC69115;
 XX 18-DEC-2003 (first entry)
 DT Human PRO 298 PCR primer #3.
 DE Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
 XX ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
 XX auditory; tumour growth; retinal disorder; sports-related joint problem;
 XX articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 XX wound healing; hearing loss; primer.
 XX Homo sapiens.
 XX US2003064407-A1.
 XX 03-APR-2003.
 XX 24-OCT-2001; 2001US-00999834.
 XX 17-OCT-1997; 97US-0062250P.
 XX 03-NOV-1997; 97US-0064249P.
 XX 13-NOV-1997; 97US-0065311P.
 XX 21-NOV-1997; 97US-0065364P.
 XX 10-MAR-1998; 98US-0077450P.
 XX 11-MAR-1998; 98US-0077632P.

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PR	12-MAR-1998;	98US-0077791P.	PR	15-MAY-1998;	98US-0085700P.
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PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
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XX
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XX
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
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Best Local Similarity 82.4%; Pred No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 149 GGAGCGCGCTTCCACT 165
Db 17 GGAGTCGACTTCCACT 1
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ID ADC63175 standard; DNA; 18 BP.
XX
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XX ADC63175;
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XX DT 18-DEC-2003 (first entry)
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XX Human PRO 298 PCR primer #3.
XX
XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
XX
XX OS Homo sapiens.
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XX PD 10-APR-2003.
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XX PF 25-OCT-2001; 2001US-00013921.
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XX The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide), a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid, a host cell comprising the vector and producing PRO, a chimeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. CC Similarly, PRO4993 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting a PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule causes death of the cell. PRO337 polypeptide is useful for linking a

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGCCGGCTTCGACT 165
 Db 17 GGAGGTCGACTCCACT 1

RESULT 888
 ADC68240/c
 ID ADC68240 standard; DNA; 18 BP.
 XX AC ADC68240;
 XX 18-DEC-2003 (first entry)
 XX Human PRO 298 PCR primer #3.
 XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 KW wound healing; hearing loss; primer.
 XX Homo sapiens.
 XX US2003069178-A1.
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 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 13-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 20-MAR-1998; 98US-0078886P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 23-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079656P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.

PR 28-MAY-1998; 98US-0087098P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 28-MAY-1998; 98US-0087208P.
 PR 26-JUN-1998; 98US-0090863P.
 PR 26-JUN-1998; 98US-0091010P.
 PR 01-JUL-1998; 98US-0091359P.
 PR 01-JUL-1998; 98US-0094551P.
 PR 11-SEP-1998; 98US-0100038P.
 PR 07-OCT-1998; 98WO-US021141.
 PR 20-NOV-1998; 98US-0109304P.
 PR 20-NOV-1998; 98WO-US024855.
 PR 22-DEC-1998; 98US-0113296P.
 PR 23-DEC-1998; 98US-0113621P.
 PR 08-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US0005028.
 PR 10-MAR-1999; 99WO-US000190.
 PR 12-MAR-1999; 99US-0123957P.
 PR 23-MAR-1999; 99US-0126773P.
 PR 21-APR-1999; 99US-0130232P.
 PR 26-APR-1999; 99US-0131022P.
 PR 26-APR-1999; 99US-01311445P.
 PR 14-MAY-1999; 99US-0134287P.
 PR 14-MAY-1999; 99WO-US010733.
 PR 02-JUN-1999; 99WO-US012252.
 PR 16-JUN-1999; 99US-0139557P.
 PR 30-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 30-DEC-1999; 99WO-US031243.
 PR 05-JAN-2000; 99WO-US031274.
 PR 06-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 22-MAR-2001; 2001WO-US009552.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 30-JUL-2001; 2001US-00818595.
 XX (GETH) GENENTECH INC.
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 PI Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2003-695924/66.
 XX New isolated secreted and transmembrane PRO polypeptides, useful in the
 PT preparation of a medicament for treating a condition responsive to the
 PT polypeptide, and as therapeutic agents e.g. vaccines.
 XX Example 95; SEQ ID NO 519; 467pp; English.

PR	27-MAR-1998;	98US-0079786P.	PR	07-OCT-1998;	98WO-US021141.		
PR	30-MAR-1998;	98US-0079920P.	PR	20-NOV-1998;	98US-0109304P.		
PR	30-MAR-1998;	98US-0079923P.	PR	20-NOV-1998;	98WO-US024855.		
PR	31-MAR-1998;	98US-0080105P.	PR	22-DEC-1998;	98US-0113296P.		
PR	31-MAR-1998;	98US-0080194P.	PR	23-DEC-1998;	98US-0113621P.		
PR	01-APR-1998;	98US-0080327P.	PR	05-JAN-1999;	99WO-US000106.		
PR	01-APR-1998;	98US-0080328P.	PR	08-MAR-1999;	99WO-US005028.		
PR	01-APR-1998;	98US-0080333P.	PR	10-MAR-1999;	99WO-US005190.		
PR	01-APR-1998;	98US-0080334P.	PR	12-MAR-1999;	99WO-US02957P.		
PR	08-APR-1998;	98US-0081070P.	PR	29-MAR-1999;	99US-0126773P.		
PR	08-APR-1998;	98US-0081071P.	PR	21-APR-1999;	99US-0130232P.		
PR	08-APR-1998;	98US-0081195P.	PR	26-APR-1999;	99US-0131022P.		
PR	09-APR-1998;	98US-0081203P.	PR	28-APR-1999;	99US-0131445P.		
PR	09-APR-1998;	98US-0081229P.	PR	14-MAY-1999;	99US-0134287P.		
PR	15-APR-1998;	98US-0081817P.	PR	14-MAY-1999;	99WO-US010733.		
PR	15-APR-1998;	98US-0081819P.	PR	02-JUN-1999;	99WO-US012352.		
PR	15-APR-1998;	98US-0081932P.	PR	16-JUN-1999;	99US-0139557P.		
PR	15-APR-1998;	98US-0081955P.	PR	23-JUN-1999;	99US-0141037P.		
PR	21-APR-1998;	98US-0082568P.	PR	07-JUL-1999;	99US-0142680P.		
PR	21-APR-1998;	98US-0082569P.	PR	26-JUL-1999;	99US-0145698P.		
PR	22-APR-1998;	98US-0082700P.	PR	28-JUL-1999;	99US-0146222P.		
PR	22-APR-1998;	98US-0082704P.	PR	29-OCT-1999;	99US-0162506P.		
PR	22-APR-1998;	98US-0082797P.	PR	30-NOV-1999;	99WO-US028313.		
PR	23-APR-1998;	98US-0082796P.	PR	02-DEC-1999;	99WO-US028551.		
PR	27-APR-1998;	98US-0083336P.	PR	02-DEC-1999;	99WO-US028585.		
PR	28-APR-1998;	98US-0083332P.	PR	16-DEC-1999;	99WO-US030095.		
PR	29-APR-1998;	98US-0083392P.	PR	30-DEC-1999;	99WO-US031243.		
PR	29-APR-1998;	98US-0083495P.	PR	30-DEC-1999;	99WO-US031274.		
PR	29-APR-1998;	98US-0083496P.	PR	05-JAN-2000;	2000WO-US000219.		
PR	29-APR-1998;	98US-0083499P.	PR	06-JAN-2000;	2000WO-US000277.		
PR	29-APR-1998;	98US-0083500P.	PR	06-JAN-2000;	2000WO-US000376.		
PR	29-APR-1998;	98US-0083545P.	PR	11-FEB-2000;	2000WO-US003565.		
PR	29-APR-1998;	98US-0083554P.	PR	18-FEB-2000;	2000WO-US004341.		
PR	29-APR-1998;	98US-0083559P.	PR	24-FEB-2000;	2000WO-US005004.		
PR	30-APR-1998;	98US-0083742P.	PR	02-MAR-2000;	2000WO-US005841.		
PR	05-MAY-1998;	98US-0084366P.	PR	10-MAR-2000;	2000WO-US006319.		
PR	06-MAY-1998;	98US-0084414P.	PR	21-MAR-2000;	2000WO-US007532.		
PR	06-MAY-1998;	98US-0084441P.	PR	31-MAR-2000;	2000WO-US008439.		
PR	07-MAY-1998;	98US-0084598P.	PR	17-MAY-2000;	2000WO-US013705.		
PR	07-MAY-1998;	98US-0084600P.	PR	22-MAY-2000;	2000WO-US014042.		
PR	07-MAY-1998;	98US-0084627P.	PR	30-MAY-2000;	2000WO-US014941.		
PR	07-MAY-1998;	98US-0084637P.	PR	02-JUN-2000;	2000WO-US015264.		
PR	07-MAY-1998;	98US-0084639P.	PR	28-JUL-2000;	2000WO-US020710.		
PR	07-MAY-1998;	98US-0084640P.	PR	24-AUG-2000;	2000WO-US023328.		
PR	07-MAY-1998;	98US-0084643P.	PR	01-DEC-2000;	2000WO-US032678.		
PR	13-MAY-1998;	98US-0085323P.	PR	20-DEC-2000;	2000WO-US034956.		
PR	13-MAY-1998;	98US-0085339P.	PR	28-DEC-2000;	2001WO-US006520.		
PR	15-MAY-1998;	98US-0085573P.	PR	22-FEB-2001;	2001WO-US009552.		
PR	15-MAY-1998;	98US-0085579P.	PR	25-MAY-2001;	2001WO-US017092.		
PR	15-MAY-1998;	98US-0085580P.	PR	01-JUN-2001;	2001WO-US017800.		
PR	15-MAY-1998;	98US-0085582P.	PR	20-JUN-2001;	2001WO-US019692.		
PR	15-MAY-1998;	98US-0085689P.	PR	23-JUN-2001;	2001WO-US021066.		
PR	15-MAY-1998;	98US-0085697P.	PR	09-JUL-2001;	2001WO-US021735.		
PR	15-MAY-1998;	98US-0085700P.	PR	30-JUL-2001;	2001US-00918585.		
PR	15-MAY-1998;	98US-0085704P.	XX	(GETH) GENENTECH INC.			
PR	18-MAY-1998;	98US-0086023P.	XX	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;			
PR	22-MAY-1998;	98US-0086392P.	XX	Ferrara N, Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME;			
PR	22-MAY-1998;	98US-0086414P.	XX	Goddard A, Godowski FJ, Grimaldi JC, Gurney AL, Hillan KJ;			
PR	22-MAY-1998;	98US-0086430P.	XX	Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;			
PR	22-MAY-1998;	98US-0086430P.	XX	Stewart TA, Tumas D, Williams PM, Wood WI;			
PR	22-MAY-1998;	98US-0086486P.	XX	WPI; 2003-657582/62.			
PR	28-MAY-1998;	98US-0087098P.	XX	Novel secreted and transmembrane polypeptides, designated PRO			
PR	28-MAY-1998;	98US-0087106P.	XX	polypeptides, and polynucleotides encoding them useful for treating			
PR	28-MAY-1998;	98US-0087208P.	XX	kidney diseases, bone, cartilage and retinal disorders.			
PR	26-JUN-1998;	98US-0090863P.	XX	Example 95; SEQ ID NO 519; 468pp; English.			
PR	26-JUN-1998;	98US-0091010P.	XX	The invention relates to an isolated PRO polypeptide (secreted or			
PR	01-JUL-1998;	98US-0091359P.	XX	transmembrane protein) having at least 80% amino acid sequence identity			
PR	30-JUL-1998;	98US-0094651P.	CC				
PR	11-SEP-1998;	98US-0100038P.	CC				

CC to an amino acid sequence chosen from 94 fully defined sequences as given
 CC in the specification (including PRO lacking its associated signal
 CC peptide, a PRO extracellular domain with or without its associated signal
 CC peptide). Also included are nucleic acids encoding the PRO proteins
 CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
 CC comprising the vector and producing PRO, a chimeric molecule comprising
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGCGCTTCGACT 165
 DB 17 GGAGGCTGACTTCGACT 1

RESULT 889
 ADC41560/C
 ID ADC41560 standard; DNA; 18 BP.

XX AC ADC41560;

XX DT 18-DEC-2003 (first entry)

XX DE Human PRO 298 PCR primer #3.

XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 KW wound healing; hearing loss; primer.

XX OS Homo sapiens.

XX PN US2003072745-A1.

XX PD 17-APR-2003.

XX PF 25-OCT-2001; 2001US-00013929.

XX PR 17-OCT-1997; 97US-0062250P.

PR 03-NOV-1997; 97US-0064249P.

PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066384P.

PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077641P.

PR 12-MAR-1998; 98US-0077791P.

PR 13-MAR-1998; 98US-0078004P.

PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078910P.

PR 20-MAR-1998; 98US-0078936P.

PR 20-MAR-1998; 98US-0078939P.

PR 25-MAR-1998; 98US-0079294P.

PR 26-MAR-1998; 98US-0079656P.

PR 27-MAR-1998; 98US-0079663P.

PR 27-MAR-1998; 98US-0079664P.

PR 27-MAR-1998; 98US-0079689P.

PR 27-MAR-1998; 98US-0079728P.

PR 30-MAR-1998; 98US-0079786P.

PR 01-APR-1998; 98US-0080327P.
 PR 01-APR-1998; 98US-0080328P.
 PR 01-APR-1998; 98US-0080333P.
 PR 01-APR-1998; 98US-0080334P.
 PR 08-APR-1998; 98US-0081049P.
 PR 08-APR-1998; 98US-0081070P.
 PR 08-APR-1998; 98US-0081071P.
 PR 08-APR-1998; 98US-0081195P.
 PR 09-APR-1998; 98US-0081203P.
 PR 09-APR-1998; 98US-0081229P.
 PR 15-APR-1998; 98US-0081817P.
 PR 15-APR-1998; 98US-0081819P.
 PR 15-APR-1998; 98US-0081838P.
 PR 15-APR-1998; 98US-0081952P.
 PR 15-APR-1998; 98US-0081955P.
 PR 21-APR-1998; 98US-0082568P.
 PR 21-APR-1998; 98US-0082569P.
 PR 22-APR-1998; 98US-0082700P.
 PR 22-APR-1998; 98US-0082704P.
 PR 22-APR-1998; 98US-0082797P.
 PR 22-APR-1998; 98US-0082804P.
 PR 23-APR-1998; 98US-0082796P.
 PR 27-APR-1998; 98US-0083336P.
 PR 28-APR-1998; 98US-0083322P.
 PR 29-APR-1998; 98US-0083392P.
 PR 29-APR-1998; 98US-0083495P.
 PR 29-APR-1998; 98US-0083496P.
 PR 29-APR-1998; 98US-0083499P.
 PR 29-APR-1998; 98US-0083500P.
 PR 29-APR-1998; 98US-0083545P.
 PR 29-APR-1998; 98US-0083554P.
 PR 29-APR-1998; 98US-0083558P.
 PR 30-APR-1998; 98US-0083559P.
 PR 30-APR-1998; 98US-0083742P.
 PR 05-MAY-1998; 98US-0084366P.
 PR 06-MAY-1998; 98US-0084414P.
 PR 06-MAY-1998; 98US-0084441P.
 PR 07-MAY-1998; 98US-0084598P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 07-MAY-1998; 98US-0084627P.
 PR 07-MAY-1998; 98US-0084637P.
 PR 07-MAY-1998; 98US-0084639P.
 PR 07-MAY-1998; 98US-0084640P.
 PR 07-MAY-1998; 98US-0084643P.
 PR 13-MAY-1998; 98US-0085323P.
 PR 13-MAY-1998; 98US-0085338P.
 PR 13-MAY-1998; 98US-0085339P.
 PR 15-MAY-1998; 98US-0085573P.
 PR 15-MAY-1998; 98US-0085579P.
 PR 15-MAY-1998; 98US-0085580P.
 PR 15-MAY-1998; 98US-0085582P.
 PR 15-MAY-1998; 98US-0085689P.
 PR 15-MAY-1998; 98US-0085697P.
 PR 15-MAY-1998; 98US-0085700P.
 PR 15-MAY-1998; 98US-0085704P.
 PR 18-MAY-1998; 98US-0086023P.
 PR 22-MAY-1998; 98US-0086392P.
 PR 22-MAY-1998; 98US-0086414P.
 PR 22-MAY-1998; 98US-0086430P.
 PR 22-MAY-1998; 98US-0086486P.
 PR 28-MAY-1998; 98US-0087098P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 28-MAY-1998; 98US-0087208P.
 PR 26-JUN-1998; 98US-0090863P.
 PR 26-JUN-1998; 98US-0091010P.
 PR 01-JUL-1998; 98US-0091359P.
 PR 30-JUL-1998; 98US-0094651P.
 PR 11-SEP-1998; 98US-0100038P.
 PR 07-OCT-1998; 98WO-US021141.
 PR 20-NOV-1998; 98US-0109304P.
 PR 20-NOV-1998; 98WO-US024855.
 PR 22-DEC-1998; 98US-0113296P.
 PR 23-DEC-1998; 98US-0113621P.

98US-0113621P.

05-JAN-1999; 99WO-US000106.
 08-MAR-1999; 99WO-US0005028.
 10-MAR-1999; 99WO-US0005190.
 12-MAR-1999; 99US-01236773P.
 29-MAR-1999; 99US-01236773P.
 21-APR-1999; 99US-01302332P.
 26-APR-1999; 99US-01310222P.
 28-APR-1999; 99US-01314453P.
 14-MAY-1999; 99US-0134287P.
 14-MAY-1999; 99WO-US010733.
 02-JUN-1999; 99WO-US012252.
 16-JUN-1999; 99US-0139557P.
 23-JUN-1999; 99US-0141037P.
 07-JUL-1999; 99US-0142680P.
 26-JUL-1999; 99US-0145698P.
 28-JUL-1999; 99US-0146222P.
 29-OCT-1999; 99US-0162506P.
 30-NOV-1999; 99WO-US028313.
 02-DEC-1999; 99WO-US028551.
 02-DEC-1999; 99WO-US028555.
 16-DEC-1999; 99WO-US030095.
 30-DEC-1999; 99WO-US031243.
 30-DEC-1999; 99WO-US031274.
 05-JAN-2000; 2000WO-US000219.
 06-JAN-2000; 2000WO-US000277.
 06-JAN-2000; 2000WO-US000376.
 11-FEB-2000; 2000WO-US003565.
 18-FEB-2000; 2000WO-US004341.
 24-FEB-2000; 2000WO-US005004.
 02-MAR-2000; 2000WO-US005841.
 10-MAR-2000; 2000WO-US006319.
 21-MAR-2000; 2000WO-US007532.
 30-MAR-2000; 2000WO-US008439.
 17-MAY-2000; 2000WO-US013705.
 22-MAY-2000; 2000WO-US014042.
 30-MAY-2000; 2000WO-US014941.
 02-JUN-2000; 2000WO-US015284.
 28-JUL-2000; 2000WO-US020710.
 24-AUG-2000; 2000WO-US023328.
 01-DEC-2000; 2000WO-US032678.
 20-DEC-2000; 2000WO-US034956.
 28-FEB-2001; 2001WO-US006530.
 22-MAR-2001; 2001WO-US009552.
 25-MAY-2001; 2001WO-US017092.
 01-JUN-2001; 2001WO-US017800.
 20-JUN-2001; 2001WO-US019692.
 29-JUN-2001; 2001WO-US021066.
 09-JUL-2001; 2001WO-US021735.
 30-JUL-2001; 2001US-00918595.
 (GETH) GENENTECH INC.

Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 Kljavin IJ, Kuo SS, Napier WA, Pan J, Paoni NF, Roy MA, Shelton DL;
 Stewart TA, Tumas D, Williams PM, Wood WI;
 WPI; 2003-743806/70.

Novel isolated secreted and transmembrane PRO polypeptides, useful in the preparation of a medicament for treating a condition responsive to the polypeptide, and as therapeutic agents e.g. vaccines.

Example 95; SEQ ID NO 519; 466pp; English.

The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid, a host cell

comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGCGCGCTTCGACT 165
 Db 17 GGAGGTCGACTTCCACT 1

RESULT 890
 ADC67615/c
 ID ADC67615 standard; DNA; 18 BP.
 XX
 AC ADC67615;
 XX
 DT 18-DEC-2003 (first entry)
 XX
 DE Human PRO 298 PCR primer #3.
 XX
 KW vulnary; virucide; neuroprotective; cytostatic; gene therapy;
 KW tumour cell proliferation inhibitor;
 KW secreted and transmembrane protein; PRO; viral infection; wound healing;
 KW tissue growth; muscle generation; muscle regeneration;
 KW anaplastic lateral sclerosis; neuropathy; AIDS-associated neuropathy;
 KW diabetic peripheral neuropathy; chromosome identification; antagonist;
 KW tissue typing; immunohistochemical staining; primer; ss.
 XX
 OS Homo sapiens.
 XX
 XX US2003073131-A1.
 XX 17-APR-2003.
 XX
 XX 25-OCT-2001; 2001US-00046177.
 XX 17-OCT-1997; 97US-0062250P.
 PR 03-NOV-1997; 97US-0064249P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 20-MAR-1998; 98US-0078866P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079656P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
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 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 31-MAR-1998; 98US-0080105P.
 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080165P.
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 PR 01-APR-1998; 98US-0080334P.
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PR	09-APR-1998;	98US-0081195P.	PR	28-APR-1999;	99US-0131445P.
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PR	09-APR-1998;	98US-0081239P.	PR	14-MAY-1999;	99WO-US010713.
PR	15-APR-1998;	98US-0081817P.	PR	02-JUN-1999;	99WO-US012252.
PR	15-APR-1998;	98US-0081819P.	PR	16-JUN-1999;	99US-0139557P.
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PR	21-APR-1998;	98US-0082568P.	PR	28-JUL-1999;	99US-0146222P.
PR	21-APR-1998;	98US-0082569P.	PR	29-OCT-1999;	99US-0162506P.
PR	22-APR-1998;	98US-0082700P.	PR	30-NOV-1999;	99WO-US028313.
PR	22-APR-1998;	98US-0082704P.	PR	02-DEC-1999;	99WO-US028551.
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PR	23-APR-1998;	98US-0082796P.	PR	30-DEC-1999;	99WO-US031243.
PR	27-APR-1998;	98US-0083336P.	PR	30-DEC-1999;	99WO-US031274.
PR	28-APR-1998;	98US-0083332P.	PR	05-JAN-2000;	2000WO-US000219.
PR	29-APR-1998;	98US-0083332P.	PR	06-JAN-2000;	2000WO-US000277.
PR	29-APR-1998;	98US-0083495P.	PR	06-JAN-2000;	2000WO-US000376.
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PR	29-APR-1998;	98US-0083545P.	PR	02-MAR-2000;	2000WO-US005841.
PR	29-APR-1998;	98US-0083554P.	PR	10-MAR-2000;	2000WO-US006319.
PR	29-APR-1998;	98US-0083558P.	PR	21-MAR-2000;	2000WO-US007532.
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PR	06-MAY-1998;	98US-0084414P.	PR	30-MAY-2000;	2000WO-US014941.
PR	07-MAY-1998;	98US-0084598P.	PR	02-JUN-2000;	2000WO-US015264.
PR	07-MAY-1998;	98US-0084600P.	PR	28-JUL-2000;	2000WO-US020710.
PR	07-MAY-1998;	98US-0084627P.	PR	24-AUG-2000;	2000WO-US023328.
PR	07-MAY-1998;	98US-0084637P.	PR	01-DEC-2000;	2000WO-US032678.
PR	07-MAY-1998;	98US-0084639P.	PR	20-DEC-2000;	2000WO-US034956.
PR	07-MAY-1998;	98US-0084639P.	PR	28-FEB-2001;	2001WO-US006520.
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PR	13-MAY-1998;	98US-0085332P.	PR	25-MAY-2001;	2001WO-US017092.
PR	13-MAY-1998;	98US-0085338P.	PR	01-JUN-2001;	2001WO-US017800.
PR	13-MAY-1998;	98US-0085339P.	PR	20-JUN-2001;	2001WO-US019692.
PR	15-MAY-1998;	98US-0085573P.	PR	29-JUN-2001;	2001WO-US021066.
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PR	15-MAY-1998;	98US-0085580P.	PR	30-JUL-2001;	2001WO-US021858.
PR	15-MAY-1998;	98US-0085822P.	XX		
PR	15-MAY-1998;	98US-0085689P.	XX		
PR	15-MAY-1998;	98US-0085697P.	PI	Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL;	
PR	15-MAY-1998;	98US-0085700P.	PI	Ferrara N, Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME;	
PR	15-MAY-1998;	98US-0085704P.	PI	Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Shelton DL;	
PR	18-MAY-1998;	98US-0086023P.	PI	Klavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D, Williams PM, Wood WI;	
PR	22-MAY-1998;	98US-0086392P.	PI	Stewart TA, Tumas D, Williams PM, Wood WI;	
PR	22-MAY-1998;	98US-0086414P.	XX		
PR	22-MAY-1998;	98US-0086430P.	XX		
PR	22-MAY-1998;	98US-0086486P.	XX		
PR	28-MAY-1998;	98US-0087098P.	XX		
PR	28-MAY-1998;	98US-0087106P.	PT	Novel isolated secreted and transmembrane PRO polypeptides, useful in the	
PR	28-MAY-1998;	98US-0087208P.	PT	preparation of a medicament for treating a condition responsive to the	
PR	28-MAY-1998;	98US-0087208P.	PT	polypeptide, and as therapeutic agents e.g. vaccines.	
PR	26-JUN-1998;	98US-0090863P.	XX		
PR	26-JUN-1998;	98US-0091010P.	XX		
PR	01-JUL-1998;	98US-0091353P.	XX		
PR	30-JUL-1998;	98US-0094653P.	XX		
PR	11-SEP-1998;	98US-0100038P.	XX		
PR	07-OCT-1998;	98WO-US021141.	CC	The invention describes an isolated secreted and transmembrane PRO	
PR	20-NOV-1998;	98US-0109304P.	CC	polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615	
PR	20-NOV-1998;	98WO-US023485.	CC	is useful in biotechnological and medical research, as well as in various	
PR	22-DEC-1998;	98US-0113296P.	CC	industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,	
PR	23-DEC-1998;	98US-0113296P.	CC	PRO708, PRO320, PRO351, PRO381, PRO615, PRO618, PRO772, PRO853,	
PR	05-JAN-1999;	98US-0113621P.	CC	PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful	
PR	05-JAN-1999;	98WO-US000106.	CC	therapeutically in vivo for lessening the effects of viral infection.	
PR	08-MAR-1999;	99WO-US005028.	CC	CC therapeutically in vivo for lessening the effects of viral infection.	
PR	10-MAR-1999;	99WO-US005190.	CC	PRC200 is useful for the treatment of wound healing, tissue growth and	
PR	12-MAR-1999;	99US-0123957P.	CC	muscle generation and regeneration. PRO337 is useful for treating or	
PR	29-MAR-1999;	99US-0126773P.	CC	amytrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or	
			Query Match	2.9%; Score 12.2; DB 1; Length 18;	

(GETH) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL;
 Ferrara N, Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME;
 Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Shelton DL;
 Klavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D, Williams PM, Wood WI;
 WPI; 2003-743810/70.

Novel isolated secreted and transmembrane PRO polypeptides, useful in the
 preparation of a medicament for treating a condition responsive to the
 polypeptide, and as therapeutic agents e.g. vaccines.

Example 95; SEQ ID NO 519; 454pp; English.

The invention describes an isolated secreted and transmembrane PRO
 polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615
 is useful in biotechnological and medical research, as well as in various
 industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,
 PRO708, PRO320, PRO351, PRO381, PRO615, PRO618, PRO772, PRO853,
 PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful
 therapeutically in vivo for lessening the effects of viral infection.
 CC therapeutically in vivo for lessening the effects of viral infection.
 CCR200 is useful for the treatment of wound healing, tissue growth and
 muscle generation and regeneration. PRO337 is useful for treating or
 amytrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or

RESULT 892
ADC42184/c
ID ADC42184 standard; DNA; 18 BP.
XX
XX
AC ADC42184;
XX
XX 18-DEC-2003 (first entry)
DI
XX
DE Human PRO 298 PCR primer #3.
XX
XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosol; atactic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular; cartilage defects; osteoarthritis; rheumatoid arthritis;
XX wound healing; hearing loss; primer.
OS
XX Homo sapiens.
XX
PN US2003104998-A1.
XX
XX 05-JUN-2003.
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XX 16-OCT-2001; 2001US-00978643.
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PR 21-NOV-1997; 97US-0065364P.
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PR 11-MAR-1998; 98US-0077649P.
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PR 13-MAR-1998; 98US-0078004P.
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PR 27-MAR-1998; 98US-0079663P.
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PR 27-MAR-1998; 98US-0079786P.
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PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
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PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 21-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.

PR 12-APR-1999; 99US-00284291.
PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131022P.
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PR 14-MAY-1999; 99US-00311832.
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PR 26-JUL-1999; 99US-0145698P.
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PR 30-DEC-1999; 99US-0301243.
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PR 04-FEB-2000; 2000US-0180185P.
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PR 28-JUL-2000; 2000US-0020710.
PR 24-AUG-2000; 2000US-0023238.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000US-00732678.
PR 20-DEC-2000; 2000US-00747259.
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PR 28-FEB-2001; 2001US-0006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001US-00816920.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854208.
PR 25-MAY-2001; 2001US-00854280.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001US-00872035.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001US-00886342.
PR 29-JUN-2001; 2001US-00886342.
PR 09-JUL-2001; 2001US-00921066.
PR 30-JUL-2001; 2001US-00921735.
PR 30-JUL-2001; 2001US-00918585.
XX
XX (GETH) GENENTECH INC.
XX
XX
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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DB 17 GGAGGTCGACTTCCTCACT 1

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PR 27-APR-1998; 98US-0083336P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083352P.
PR 29-APR-1998; 98US-0083495P.
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PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
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PR 14-MAY-1999; 99WO-US010733.
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PR 25-AUG-1999; 99US-00380142.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
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PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003585.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
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PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001WO-US009552.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 05-JUN-2001; 2001WO-US017800.
PR 14-JUN-2001; 2001US-00874503.
PR 19-JUN-2001; 2001US-00882636.
PR 20-JUN-2001; 2001US-00886342.
PR 29-JUN-2001; 2001WO-US019692.
PR 09-JUL-2001; 2001WO-US021066.
PR 30-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
PR XX (GETH) GENENTECH INC.
PR XX

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGGCGGCTCGACT 165
Dd 17 GGAGGCTCGACTTCCACT 1

RESULT 893
ADD24791/C
ID ADD24791 standard; DNA; 18 BP.
XX
AC ADD24791;
XX

PR 19-JUN-2001; 2001DE-01029410.
XX (VERM-) VERMICON AG.
PA Beinfuhr C, Snaidr J;
PI WPI; 2003-175243/17.
DR
XX
XX New oligonucleotides, useful for rapid detection of beer-spoilage
PT bacteria by in situ hybridization, are specific for type, genus or
FT species.
XX
PS Claim 1; SEQ ID NO 262; 88pp; German.
XX
XX This invention describes novel oligonucleotides used in a method for
XX detecting beer-spoilage bacteria in a sample. The bacteria detected
CC include lactic acid bacteria of the genera Lactobacillus or Pediococcus,
CC especially the species L. coryniformis, L. perolens, L. buchneri, L.
CC plantarum, L. fructivorans, L. lindneri, L. casei, L. brevis or P.
CC damnosus or Gram-negative bacteria of the genera Pectinatus and
CC Megaspheara, specifically P. frislingensis, P. cerevisiophilus and M.
CC cerevisiae. The oligonucleotides of the invention provide rapid detection
CC of spoilage bacteria (typically within 48 hours, compared with 7-12 days
CC for conventional culture methods), can detect all relevant bacteria in
CC parallel, can differentiate between species of the same genus, and are
CC easy to use. ADE14806-ADE15247 represent the oligonucleotides used in the
XX method of the invention.
SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 103 CTGACCGCGACCGCAGC 119
Db 17 CTGACGTCGACCGCAGC 1

RESULT 896
ADE49553/C
ID ADE49553 standard; DNA; 18 BP.
XX
AC ADE49553;
XX
XX 29-JAN-2004 (first entry)
XX
DE Human PRO 298 PCR primer #3.
XX
XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
XX
XX Homo sapiens.
XX
XX US2003096744-A1.
XX
XX 22-MAY-2003.
XX
XX 28-JAN-2002; 2002US-00978187.
PF
XX
XX 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.

17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079820P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 21-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082757P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083336P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 06-MAY-1998; 98US-0084441P.
PR 07-MAY-1998; 98US-0084598P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085323P.
PR 13-MAY-1998; 98US-0085338P.
PR 13-MAY-1998; 98US-0085339P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085689P.
PR 15-MAY-1998; 98US-0085697P.
PR 15-MAY-1998; 98US-0085700P.
PR 15-MAY-1998; 98US-0085704P.
PR 18-MAY-1998; 98US-0086023P.

PT New genes, and its encoded secreted and transmembrane polypeptides,
 PT useful for treating e.g. lung or breast tumors, osteoarthritis,
 PT rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
 PT hypoinsulinemia or wounds.
 XX Example 95; SEQ ID NO 519; 452pp; English.
 PS
 CC The invention relates to an isolated PRO polypeptide (secreted or
 CC transmembrane protein) having at least 80% amino acid sequence identity
 CC to an amino acid sequence chosen from 94 fully defined sequences as given
 CC in the specification (including PRO lacking its associated signal
 CC peptide, a PRO extracellular domain with or without its associated signal
 CC peptide). Also included are nucleic acids encoding the PRO proteins
 CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
 CC comprising the vector and producing PRO, a chimeric molecule comprising
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
 CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
 CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
 CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
 CC causes death of the cell. PRO337 polypeptide is useful for linking a
 CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
 CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
 CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
 CC useful for linking a bioactive molecule to a cell expressing PRO725,
 CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
 CC polypeptide is useful for modulating at least one biological activity of
 CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the
 CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,
 CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
 CC modulating the biological activity of the cell expressing PRO1559
 CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
 CC PRO739 polypeptide is useful for modulating the biological activity of
 CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
 CC polypeptides are useful for inhibiting tumour growth, retinal disorders,
 CC sports-related joint problems, articular cartilage defects,
 CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
 CC mammals. The present sequence is a PCR primer used to isolate nucleic
 CC acid encoding a PRO protein.
 XX
 SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGGCGCGCTTCGACT 165
 Db 17 GGAGGCGCTTCGACT 1

RESULT 898
 ADE16721/c
 ID ADE16721 standard; DNA; 18 BP.

XX ADE16721;

XX AC

XX 29-JAN-2004 (first entry)

XX Human PRO 298 PCR primer #3.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
 KW wound healing; hearing loss; primer.

OS Homo sapiens.

XX US2003203435-A1.
 XX 30-OCT-2003.
 XX 18-OCT-2001; 2001US-00145092.
 XX 30-APR-1998; 98US-0083742P.
 PR 08-MAR-1999; 99WO-US005028.
 PR 23-JUN-1999; 99US-0141037P.
 PR 25-AUG-1999; 99US-00380138.
 PR 18-FEB-2000; 2000KO-US004341.
 PR 30-JUL-2001; 2001US-00918585.
 XX (GETH) GENENTECH INC.
 PA Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 PI Stewart TA, Tumas D, Williams PM, Wood WT;
 XX WPI; 2003-875642/81.
 XX New genes, and its encoded secreted and transmembrane polypeptides,
 XX useful for treating e.g. lung or breast tumors, osteoarthritis,
 PT rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
 PT hypoinsulinemia or wounds.
 XX Example 95; SEQ ID NO 519; 452pp; English.
 CC The invention relates to an isolated PRO polypeptide (secreted or
 CC transmembrane protein) having at least 80% amino acid sequence identity
 CC to an amino acid sequence chosen from 94 fully defined sequences as given
 CC in the specification (including PRO lacking its associated signal
 CC peptide, a PRO extracellular domain with or without its associated signal
 CC peptide). Also included are nucleic acids encoding the PRO proteins
 CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
 CC comprising the vector and producing PRO, a chimeric molecule comprising
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
 CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
 CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
 CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
 CC causes death of the cell. PRO337 polypeptide is useful for linking a
 CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
 CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
 CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
 CC useful for linking a bioactive molecule to a cell expressing PRO725,
 CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
 CC polypeptide is useful for modulating at least one biological activity of
 CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the
 CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,
 CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
 CC modulating the biological activity of the cell expressing PRO1559
 CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
 CC PRO739 polypeptide is useful for modulating the biological activity of
 CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
 CC polypeptides are useful for inhibiting tumour growth, retinal disorders,
 CC sports-related joint problems, articular cartilage defects,
 CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
 CC mammals. The present sequence is a PCR primer used to isolate nucleic
 CC acid encoding a PRO protein.
 XX
 SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 149 GGAGCGCGGCTTCGACT 165
DB 17 GGAGGTCGACTTCACCT 1
RESULT 899
ADD73336/c
ID ADD73336 standard; DNA; 18 BP.
XX AC ADD73336;
XX DT 29-JAN-2004 (first entry)
XX DE Human PRO 298 PCR primer #3.
XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
XX KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary;
XX KW auditory; tumour growth; retinal disorder; sports-related joint problem;
XX KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
XX KW wound healing; hearing loss; primer.
XX OS Homo sapiens.
XX PN US2003203436-A1.
XX PD 30-OCT-2003.
XX PF 18-OCT-2001; 2001US-00145129.
XX PR 22-MAY-1998; 98US-0085414P.
XX PR 22-DEC-1998; 98US-0113296P.
XX PR 05-JAN-1999; 99WO-US000106.
XX PR 08-MAR-1999; 99WO-US005028.
XX PR 12-APR-1999; 99US-00284291.
XX PR 25-AUG-1999; 99US-00380138.
XX PR 18-FEB-2000; 2000WO-US004341.
XX PR 30-JUL-2001; 2001US-00918585.
XX PA (GETH) GENENTECH INC.
XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
XX PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
XX PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paci NF, Roy MA, Shelton DL;
XX PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI; 2003-875643/81.
XX New PRO genes and encoded secreted and transmembrane polypeptides, useful
XX for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid
XX arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or
XX wounds.
XX Example 95; SEQ ID NO 519; 453pp; English.
XX The invention relates to an isolated PRO polypeptide (secreted or
XX transmembrane protein) having at least 80% amino acid sequence identity
XX to an amino acid sequence chosen from 94 fully defined sequences as given
XX in the specification (including PRO lacking its associated signal
XX peptide), a PRO extracellular domain with or without its associated signal
XX peptide), also included are nucleic acids encoding the PRO proteins
XX mentioned above, a vector comprising a PRO nucleic acid), a host cell
XX comprising the vector and producing PRO, a chimeric molecule comprising
XX PRO fused to a heterologous amino acid sequence, and an anti-PRO
XX antibody. PRO337 polypeptide is useful for detecting a PRO4993
XX polypeptide in a sample suspected of containing PRO4993 polypeptide.
XX Similarly, PRO4993 polypeptide is useful for detecting PRO337
XX polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
XX PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
XX PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
XX bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive

molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
causes death of the cell. PRO337 polypeptide is useful for linking a
bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
useful for linking a bioactive molecule to a cell expressing PRO725,
PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
polypeptide is useful for modulating at least one biological activity of
the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
polypeptide or anti-PRO4993 polypeptide is useful for modulating the
biological activity of the cell expressing PRO4993 polypeptide; PRO725,
PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
modulating the biological activity of the cell expressing PRO1559
polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
PRO739 polypeptide is useful for modulating the biological activity of
the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
polypeptides are useful for inhibiting tumour growth, retinal disorders,
sports-related joint problems, articular cartilage defects,
osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
mammals. The present sequence is a PCR primer used to isolate nucleic
acid encoding a PRO protein.
Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 149 GGAGCGCGGCTTCGACT 165
DB 17 GGAGGTCGACTTCACCT 1
RESULT 900
ADD72694/c
ID ADD72694 standard; DNA; 18 BP.
XX AC ADD72694;
XX DT 29-JAN-2004 (first entry)
XX DE Human PRO 298 PCR primer #3.
XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
XX KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary;
XX KW auditory; tumour growth; retinal disorder; sports-related joint problem;
XX KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
XX KW wound healing; hearing loss; primer.
XX OS Homo sapiens.
XX PN US2003194781-A1.
XX PD 16-OCT-2003.
XX PF 19-OCT-2001; 2001US-00164929.
XX PR 30-MAR-1998; 98US-0079920P.
XX PR 07-OCT-1998; 98WO-US021141.
XX PR 20-NOV-1998; 98WO-US024855.
XX PR 05-JAN-1999; 99WO-US000106.
XX PR 08-MAR-1999; 99WO-US005028.
XX PR 10-MAR-1999; 99WO-US005190.
XX PR 15-APR-1999; 99WO-US008313.
XX PR 14-MAY-1999; 99WO-US010733.
XX PR 02-JUN-1999; 99WO-US012252.
XX PR 25-AUG-1999; 99US-00380138.
XX PR 30-NOV-1999; 99WO-US028313.
XX PR 02-DEC-1999; 99WO-US028551.
XX PR 16-DEC-1999; 99WO-US028565.
XX PR 30-DEC-1999; 99WO-US030095.
XX PR 30-DEC-1999; 99WO-US031243.
XX PR 30-DEC-1999; 99WO-US031274.

CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC peptide). Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
CC comprising the vector and producing PRO, a chimeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
CC useful for linking a bioactive molecule to a cell expressing PRO725,
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
CC polypeptide is useful for modulating at least one biological activity of
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
CC modulating the biological activity of the cell expressing PRO1559
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
CC PRO739 polypeptide is useful for modulating the biological activity of
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,
CC sports-related joint problems, articular cartilage defects,
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
CC mammals. The present sequence is a PCR primer used to isolate nucleic
CC acid encoding a PRO protein.

XX SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 149 GGAGCGCGCTTCACT 165
Db 17 GGAGTCTCACTTCACT 1

RESULT 902
ADE48853/c
ID ADE48853 standard; DNA; 18 BP.
XX AC ADE48853;
XX DT 29-JAN-2004 (first entry)
XX DE Human PRO 298 PCR primer #3.
XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
XX KW opthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
XX KW auditory; tumour growth; retinal disorder; sports-related joint problem;
XX KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
XX KW wound healing; hearing loss; primer.
XX OS Homo sapiens.
XX SS US2003104536-A1.
XX PN 05-JUN-2003.
XX PD 19-OCT-2001; 2001US-00166709.
XX PF 07-OCT-1998; 98WO-US021141.
XX PR 20-NOV-1998; 98WO-US024855.
XX PR 05-JAN-1999; 99WO-US000106.

08-MAR-1999; 99WO-US0005028.
10-MAR-1999; 99WO-US0005190.
14-MAY-1999; 99WO-US010733.
02-JUN-1999; 99WO-US012252.
30-NOV-1999; 99WO-US028113.
02-DEC-1999; 99WO-US028551.
16-DEC-1999; 99WO-US028565.
30-DEC-1999; 99WO-US030095.
30-DEC-1999; 99WO-US031243.
30-DEC-1999; 99WO-US031274.
05-JAN-2000; 2000WO-US0000219.
06-JAN-2000; 2000WO-US000277.
11-FEB-2000; 2000WO-US000376.
18-FEB-2000; 2000WO-US000356.
24-FEB-2000; 2000WO-US004341.
02-MAR-2000; 2000WO-US005004.
10-MAR-2000; 2000WO-US005841.
21-MAR-2000; 2000WO-US006319.
30-MAR-2000; 2000WO-US007532.
17-MAY-2000; 2000WO-US008439.
22-MAY-2000; 2000WO-US013705.
30-MAY-2000; 2000WO-US014042.
02-JUN-2000; 2000WO-US014941.
28-JUN-2000; 2000WO-US015264.
24-AUG-2000; 2000WO-US020710.
01-DEC-2000; 2000WO-US023328.
20-DEC-2000; 2000WO-US032678.
28-FEB-2001; 2001WO-US006520.
22-MAR-2001; 2001WO-US009552.
25-MAY-2001; 2001WO-US017092.
01-JUN-2001; 2001WO-US017800.
20-JUN-2001; 2001WO-US019692.
29-JUN-2001; 2001WO-US021066.
09-JUL-2001; 2001WO-US021735.
30-JUL-2001; 2001US-00918595.

(GETH) GENENTECH INC.

PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI; 2004-008994/01.

XX New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO4993 or
PT PRO337, useful in molecular biology, chromosome and gene mapping, in
PT generating antisense RNA and DNA, and in gene therapy.
XX Example 95; SEQ ID NO 519; 460pp; English.

XX The invention relates to an isolated PRO polypeptide (secreted or
CC transmembrane protein) having at least 80% amino acid sequence identity
CC to an amino acid sequence chosen from 94 fully defined sequences as given
CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC peptide). Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell
CC comprising the vector and producing PRO, a chimeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule

CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is
CC useful for linking a bioactive molecule to a cell expressing PRO725,
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337
CC polypeptide is useful for modulating at least one biological activity of
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for
CC modulating the biological activity of the cell expressing PRO1559
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-
CC PRO739 polypeptide is useful for modulating the biological activity of
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,
CC sports-related joint problems, articular cartilage defects,
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in
CC mammals. The present sequence is a PCR primer used to isolate nucleic
CC acid encoding a PRO protein.
XX
SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGGCGGGCTCGACT 165
Db 17 GGAGGTCGACTTCCT 1

RESULT 903
ADE89954/c
ID ADE89954 standard; DNA; 18 BP.
XX
AC ADE89954;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human PRO 298 PCR primer #3.
XX
KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
KW Ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
XX
OS Homo sapiens.
XX
XX US2003130181-A1.
XX
XX 10-JUL-2003.
XX
XX 16-OCT-2001; 2001US-00978375.
XX
XX 17-OCT-1997; 97US-0062250P.
XX 03-NOV-1997; 97US-0064249P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066364P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077641P.
XX 11-MAR-1998; 98US-0077849P.
XX 12-MAR-1998; 98US-0077791P.
XX 13-MAR-1998; 98US-0078004P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078910P.
XX 20-MAR-1998; 98US-0078936P.
XX 20-MAR-1998; 98US-0078939P.
XX 26-MAR-1998; 98US-0079294P.
XX 26-MAR-1998; 98US-0079556P.
XX 27-MAR-1998; 98US-0079663P.
XX 27-MAR-1998; 98US-0079669P.
XX 27-MAR-1998; 98US-0079689P.
XX 27-MAR-1998; 98US-0079728P.

PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080103P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083336P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083743P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 06-MAY-1998; 98US-0084441P.
PR 07-MAY-1998; 98US-0084598P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 13-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085323P.
PR 13-MAY-1998; 98US-0085338P.
PR 15-MAY-1998; 98US-0085339P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085689P.
PR 15-MAY-1998; 98US-0085697P.
PR 15-MAY-1998; 98US-0085700P.
PR 15-MAY-1998; 98US-0085704P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086414P.
PR 22-MAY-1998; 98US-0086430P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087099P.
PR 28-MAY-1998; 98US-0087108P.
PR 28-MAY-1998; 98US-0087208P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.

PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98US-0021141.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98US-05024855.
PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99US-01000106.
PR 08-MAR-1999; 99US-05005028.
PR 10-MAR-1999; 99US-05005190.
PR 12-MAR-1999; 99US-0123957P.
PR 13-MAR-1999; 99US-0126773P.
PR 21-APR-1999; 99US-0130232E.
PR 26-APR-1999; 99US-0131022P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 14-MAY-1999; 99US-05010733.
PR 02-JUN-1999; 99US-05012252.
PR 16-JUN-1999; 99US-0139557P.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0142680P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99US-05028313.
PR 02-DEC-1999; 99US-05028551.
PR 02-DEC-1999; 99US-05028565.
PR 16-DEC-1999; 99US-05030093.
PR 30-DEC-1999; 99US-05031243.
PR 30-DEC-1999; 99US-05031274.
PR 03-JAN-2000; 2000US-05000219.
PR 06-JAN-2000; 2000US-05000277.
PR 06-JAN-2000; 2000US-0500376.
PR 11-FEB-2000; 2000US-05003565.
PR 18-FEB-2000; 2000US-05004341.
PR 24-FEB-2000; 2000US-05005004.
PR 02-MAR-2000; 2000US-0505841.
PR 10-MAR-2000; 2000US-0506319.
PR 21-MAR-2000; 2000US-05007532.
PR 30-MAR-2000; 2000US-05008439.
PR 17-MAY-2000; 2000US-05013705.
PR 22-MAY-2000; 2000US-05014042.
PR 30-MAY-2000; 2000US-05014941.
PR 02-JUN-2000; 2000US-05015264.
PR 28-JUL-2000; 2000US-05020719.
PR 24-AUG-2000; 2000US-05023328.
PR 01-DEC-2000; 2000US-0502678.
PR 20-DEC-2000; 2000US-05034956.
PR 28-FEB-2001; 2001US-05006520.
PR 22-MAR-2001; 2001US-05009552.
PR 25-MAY-2001; 2001US-05017092.
PR 01-JUN-2001; 2001US-05017800.
PR 20-JUN-2001; 2001US-05019692.
PR 29-JUN-2001; 2001US-05019692.
PR 03-JUL-2001; 2001US-05021066.
PR 30-JUL-2001; 2001US-05021735.
XX XX

(ASHK/) ASHKENAZI A J.
PA (BAKE/) BAKER K P.
PA (BOTS/) BOTSTEIN D.
PA (DESN/) DESNOVERS L.
PA (EATO/) EATON D L.
PA (FERR/) FERRARA N.
PA (FILV/) FILVAROFF E.
PA (FONG/) FONG S.
PA (GAOW/) GAO W.
PA (GERB/) GERBER H.
PA (GERR/) GERRITSEN M E.
PA (GODD/) GODDARD A.
PA (GODO/) GODOWSKI P J.
PA (GIRM/) GIRMALDI J C.
PA (GURN/) GURNEY A L.
PA (HILL/) HILLAN K J.

PA (KLJA/) KLJAVIN I J.
PA (KUOS/) KUO S S.
PA (NAPI/) NAPIER M A.
PA (PANI/) PAN J.
PA (PAON/) PAONI N F.
PA (ROYN/) ROY M A.
PA (SHEL/) SHELTON D L.
PA (STEW/) STEWART T A.
PA (TUMA/) TUMAS D.
PA (WILL/) WILLIAMS P M.
PA (WOOD/) WOOD W I.
XX

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGCGCTCGACT 165
Db 17 GGAGTGCACITTCAC 1

RESULT 904

AAF27041
ID AAF27041 standard; DNA; 35 BP.

AC AAF27041;

DT 30-MAR-2001 (first entry)

DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:45.

KW Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;
KW bioavailability; formulation; neurological disorder;
KW inflammatory disorder; autoimmune disorder; cancer;
KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;
KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;
KW malignant glioma; medulloblastoma; neuroectodermal tumour;
KW mutagenic primer; ss.

XX Homo sapiens.

OS Synthetic.

XX WO2000073337-A1.

XX 07-DEC-2000.

XX 26-MAY-2000; 2000WO-US014741.

XX 01-JUN-1999; 99US-0137011P.

XX 13-AUG-1999; 99US-0149016P.

PA (BIOJ) BIOGEN INC.

XX Pepinsky RB, Taylor F, Garber E;

XX WPI; 2001-049927/06.

PT Modified hedgehog protein, useful in the treatment of Parkinson's disease
PT and Huntington's chorea, comprises a polymer containing a polyalkylene
PT Glycol group linked to any residue other than the N-terminal and lysine
PT residues.

PS Example 6; Page 77; 157pp; English.

XX The invention relates to novel polymer conjugates of hedgehog proteins
CC which have increased bioavailability. The hedgehog proteins are
CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene
CC Glycol group, with the proviso that the polymer is not conjugated to the
CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
CC a hedgehog fusion protein. The invention also relates to methods of

CC defining and mapping functionally important regions of a protein by
CC modifying accessible amino acid side chains, and determining the effect
CC the position and/or type of modification have on the activity of the
CC protein. The hedgehog polymer conjugates may be used in the management of
CC various medical conditions including various neurological disorders,
CC inflammatory and autoimmune diseases, and cancers. In particular, they
CC may be used to prevent preventing or ameliorate neurodegenerative
CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
CC disease), age-associated neurological diseases, neurological injury and
CC trauma; immunological diseases of the nervous system (e.g., multiple
CC sclerosis); stroke; and malignant gliomas, medulloblastomas and
CC neuroectodermal tumours. The modifications made to the hedgehog protein
CC may result in increased half-life, altered tissue distribution (such as
CC an improved ability to stay in the vasculature for longer periods of
CC time), increased stability in solution, protection from proteolytic
CC degradation, or reduced immunogenicity. In particular, the ability to
CC remain in the vasculature for prolonged periods may allow a hedgehog
CC protein of the invention to cross the blood-brain barrier, and an
CC increased thermal stability would be an advantage when formulating the
CC hedgehog protein in powder form. The present sequence represents a human
CC Sonic hedgehog mutagenic primer used in an exemplification of the
CC invention

XX SQ Sequence 35 BP; 8 A; 15 C; 9 G; 3 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 35;
Best Local Similarity 68.0%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
Qy 36 GACGACATGCGCCACCTCAGAGG 60
Db 10 GTCGAGCAGCGCTCCACGCCAGG 34

RESULT 905
AAQ52964
ID AAQ52964 standard; RNA; 13 BP.
XX AC AAQ52964;
XX AC AAQ52964;
XX 25-MAR-2003 (revised)
DT 26-MAY-1994 (first entry)
XX XX Herpes simplex virus target sequence 42.
XX RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; HnRNA;
KW Picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV;
KW Papilloma virus; HPV; Epstein-Barr virus; EBV; TGLV;
KW T-cell leukaemia virus; hepatitis C virus; HCV; cytomegalovirus;
KW influenza virus; HSV; herpes simplex virus; vector; immune response;
KW antibody; ribozyme; viral RNA; treatment; ss.
OS Synthetic.
XX XX
DN WO9323569-A1.
XX XX
PD 25-NOV-1993.
XX XX
PF 29-APR-1993; 93WO-US004020.
XX XX
PR 11-MAY-1992; 92US-00882689.
PR 14-MAY-1992; 92US-00882712.
PR 14-MAY-1992; 92US-00882713.
PR 14-MAY-1992; 92US-00882714.
PR 14-MAY-1992; 92US-00882823.
PR 14-MAY-1992; 92US-00882824.
PR 14-MAY-1992; 92US-00882886.
PR 14-MAY-1992; 92US-00882888.
PR 14-MAY-1992; 92US-00882889.
PR 14-MAY-1992; 92US-00882921.
PR 14-MAY-1992; 92US-00882922.
PR 14-MAY-1992; 92US-00883823.
PR 14-MAY-1992; 92US-00883849.

PR 14-MAY-1992; 92US-00884073.
PR 14-MAY-1992; 92US-00884074.
PR 14-MAY-1992; 92US-00884333.
PR 14-MAY-1992; 92US-00884422.
PR 14-MAY-1992; 92US-00884431.
PR 14-MAY-1992; 92US-00884436.
PR 14-MAY-1992; 92US-00884521.
PR 31-JUL-1992; 92US-00923738.
PR 26-AUG-1992; 92US-00935854.
PR 26-AUG-1992; 92US-00936086.
PR 18-SEP-1992; 92US-00948359.
PR 15-OCT-1992; 92US-00963322.
PR 07-DEC-1992; 92US-00987129.
PR 07-DEC-1992; 92US-00987130.
PR 07-DEC-1992; 92US-00987133.
XX (RIBO-) RIBOZYME PHARM INC.
XX Draper KG, Dudycz LW, Mcswiggen JA, Macejak DG, Holecsek JJ;
PI Mamona JA;
XX WPI; 1993-386599/48.
XX Enzymatic RNA molecules - used to inhibit viral replication, infection
PT and gene expression.
PT Claim 5; Fig 15; 287pp; English.
PS XX The sequences (AAQ52923-Q53037) are pref. herpes simplex virus target
CC sequences for enzymatic RNA molecules. The RNA molecules are
CC complementary to a substrate binding region in the specified gene target.
CC They also have enzymatic activity, in that they specifically cleave RNA
CC in the target. The ERMs interfere with viral replication and therefore
CC have anti-viral properties. They can be used to attenuate viruses to be
CC used in vaccines. (Updated on 25-MAR-2003 to correct PR field.) (Updated
CC on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to correct
CC PI field.)
XX SQ Sequence 13 BP; 4 A; 3 C; 5 G; 0 T; 1 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 2.6e+02;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 32 CTCGGACGAAGA 43
Db 1 CUGGACGAAGA 12

RESULT 906
AAQ31516/c
ID AAQ31516 standard; DNA; 15 BP.
XX AC AAQ31516;
XX AC AAQ31516;
XX 21-MAY-1999 (first entry)
DT XX Tag sequence of a transcript increased in pancreatic cancer.
DE XX Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;
KW diagnosis; prognosis; treatment; ss.
XX Homo sapiens.
OS WO9853319-A2.
PN 26-NOV-1998.
XX 20-MAY-1998; 98WO-US010277.
XX 21-MAY-1997; 97US-0047352P.
XX (UJJO) UNIV JOHNS HOPKINS.
PA

XX Vogelstein B, Kinzler KW;
XX WPI; 1999-070161/06.
XX
XX Use of isolated gene transcripts - useful for developing products for the
XX diagnosis, prognosis and treatment of cancers, particularly colon and
XX pancreatic cancer.
XX
XX Claim 13; Page 57; 120pp; English.
XX
XX AAX30947-31815 represent tag sequences of transcripts that are
XX differentially expressed in colorectal cancer, in pancreatic cancer, or
XX in both. The tag sequences can be used to identify genes by matching the
XX tag to a gen data base member, or by using the tag sequences as probes to
XX isolate unidentified genes from cDNA libraries. The tag sequences can
XX also be used in a method for diagnosing colon or pancreatic cancer in a
XX sample suspected of being neoplastic. The method comprises comparing the
XX level of at least one transcript in a first sample of a tissue to a
XX second sample, where the first sample is a colonic tissue suspected of
XX being neoplastic and the second sample is a normal human colonic tissue.
XX The transcript is identified by a tag selected from AAX30947-31815. The
XX methods of the invention can be used in the diagnosis, prognosis and
XX treatment of cancer
XX
XX Sequence 15 BP; 3 A; 2 C; 6 G; 4 T; 0 U; 0 Other;
XX
XX
XX Query Match 2.8%; Score 12; DB 1; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 3.5e+02; Length 15;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 92 CATCACCACGTC 103
XX Db 15 CATCACCACGTC 4
XX
XX
XX RESULT 907
XX AAF48829
XX ID AAF48829 standard; DNA; 15 BP.
XX AC AAF48829;
XX
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #2249.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hyperneovascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
XX Homo sapiens.
XX
XX OS
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX
XX PF 21-JUN-2000; 2000WO-AU000693.
XX
XX PR 21-JUN-1999; 99US-0140345P.
XX
XX (MURD-) MURDOCH CHILDRENS RES INST.
XX
XX Wright CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that

PT inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
XX Example 7; Page 58; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antisense
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX F45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, ptyriasis, ruba, pilaris, serborrhea, keloids, keratosis,
XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX hyperneovascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia
XX
XX Sequence 15 BP; 6 A; 4 C; 3 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 12; DB 1; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 3.5e+02; Length 15;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 394 CCAAGAAGGTCT 405
XX Db 4 CCAAGAAGGTCT 15
XX
XX
XX RESULT 908
XX AAF48832
XX ID AAF48832 standard; DNA; 15 BP.
XX AC AAF48832;
XX
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #2252.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hyperneovascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
XX Homo sapiens.
XX
XX OS
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX
XX PF 21-JUN-2000; 2000WO-AU000693.
XX
XX PR 21-JUN-1999; 99US-0140345P.
XX
XX (MURD-) MURDOCH CHILDRENS RES INST.
XX
XX Wright CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
XX Example 7; Page 58; 201pp; English.
XX

XX The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.5e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 394 CCAAGAGGTCT 405
DB 1 CCAAGAGGTCT 12
RESULT 909
AAF48830
ID AAF48830 standard; DNA; 15 BP.
XX AC AAF48830;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #2251.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wright CJ, Werther GA, Edmondson SR;
XX PT WPI; 2001-041421/05.
XX DR Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS Example 7; Page 58; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.5e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 394 CCAAGAGGTCT 405
DB 1 CCAAGAGGTCT 12
RESULT 909
AAF48830
ID AAF48830 standard; DNA; 15 BP.
XX AC AAF48830;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #2251.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wright CJ, Werther GA, Edmondson SR;
XX PT WPI; 2001-041421/05.
XX DR Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS Example 7; Page 58; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1

CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX SQ Sequence 15 BP; 5 A; 4 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.5e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 394 CCAAGAGGTCT 405
DB 3 CCAAGAGGTCT 14
RESULT 910
AAF48831
ID AAF48831 standard; DNA; 15 BP.
XX AC AAF48831;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #2251.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wright CJ, Werther GA, Edmondson SR;
XX PT WPI; 2001-041421/05.
XX DR Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS Example 7; Page 58; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense

CC oligonucleotides of the present invention (see AAR45151 and AAR45153-
CC P45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrheoa, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.5e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 394 CCAAGAGGCTCT 405
DB 2 CCAAGAGGCTCT 13

RESULT 911
AAS99932
ID AAS99932 standard; DNA; 15 BP.
XX AC AAS99932;
XX
DT 12-MAR-2002 (first entry)
XX
DE Even-skipped homeobox 1 (EVX1) gene allele-specific oligonucleotide #9.
XX
XX Even-skipped homeo box 1; EVX1; neurological disease; drug screening;
KW haplotyping; single nucleotide polymorphism; SNP; human; ss;
KW allele-specific oligonucleotide.
XX
XX Homo sapiens.
XX
XX WO200190120-A2.
XX
XX 29-NOV-2001.
XX
XX 21-MAY-2001; 2001WO-US016559.
XX
XX 19-MAY-2000; 2000US-0205437P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Duda A, Klieb SE, Kumar AM;
XX WPI; 2002-089913/12.
XX
XX Novel genetic variants of even-skipped homeo box 1, EVX1 gene useful for
PT therapeutic purposes and for expressing EVX1 protein useful in
PT identifying drugs to treat neurological diseases.
XX
XX Claim 16; Page 13; 69pp; English.
XX
XX The invention relates to an isolated polynucleotide (I), comprising a
CC nucleotide sequence which is a polymorphic variant of a reference
CC sequence for the even-skipped homeo box 1 (homologue of Drosophila)
CC (EVX1) gene or its fragment, or a polymorphic variant of a reference
CC sequence for a EVX1 cDNA or its fragment. EVX1 polypeptide (II) is useful
CC for screening for drugs targeting the polypeptide, by contacting the EVX1
CC polymorphic variant with a candidate agent and assaying for binding
CC activity. A method is described for identifying an association between a
CC trait such as a clinical response to a drug targeting EVX1 and a
CC haplotype or haplotype pair of EVX1 gene. The methods are useful in
CC developing diagnostic tests and therapeutic treatments for neurological
CC diseases. (I) is useful for studying the expression and function of EVX1
CC and expressing EVX1 protein for use in screening for candidate drugs to
CC treat diseases related to EVX1 activity. The polymorphism and haplotype
CC data are useful for validating whether EVX1 is a suitable target for
CC drugs to treat neurological diseases, screening for such drugs and
CC reducing bias in clinical trials of such drugs. (I) is useful for

CC therapeutic purposes. (I) is useful for determining if an individual has
CC one of the haplotypes 1-4 or the haplotype pairs. Establishing the EVX1
CC haplotype or haplotype pair of an individual is useful for improving the
CC efficiency and reliability of several steps in the discovery and
CC development of drugs for treating diseases associated with EVX1 activity
CC e.g. neurological diseases. The haplotyping method is useful to validate
CC EVX1 as a candidate target for treating a specific condition or disease
CC predicted to be associated with EVX1 activity. (I) is useful for studying
CC expression of the EVX1 isogenes in vivo, for in vivo screening and
CC testing of drugs against EVX1 protein and for testing the efficacy of
CC therapeutic agents and compounds for neurological diseases in a
CC biological system. Antibody raised against (II) is useful for diagnostic
CC and prognostic formats and therapeutic methods, for immunoprecipitating
CC (II) from solution, for detecting EVX1 protein isoforms in biological
CC samples, frozen tissue sections, cells which have been fixed or unfixed
CC and prepared on slides, for use in immunocytochemical,
CC immunohistochemical and immunofluorescence techniques. AAS99924-AAS99958
CC represent human EVX1 gene allele-specific oligonucleotides of the
CC invention
XX
SQ Sequence 15 BP; 2 A; 6 C; 6 G; 0 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.5e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 106 ACCGCGACCCGACG 119
DB 1 ACCGCGACCCGCGY 14

RESULT 912
ABK70537
ID ABK70537 standard; DNA; 15 BP.
XX AC ABK70537;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human G protein-coupled receptor 7 allele-specific probe #21.
XX
XX Human; G protein-coupled receptor 7; GPR7; haplotyping; SNP;
KW psychological disorder; neurological disorder; probe; ss;
KW single nucleotide polymorphism.
XX
XX Homo sapiens.
XX
XX WO200222644-A1.
XX
XX 21-MAR-2002.
XX
XX 17-SEP-2001; 2001WO-US029207.
XX
XX 15-SEP-2000; 2000US-0232900P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Koshy B, Sanchis A, Tirrell C;
XX WPI; 2002-383121/41.
XX
XX Novel genetic variants of G protein-coupled receptor 7 gene useful for
PT therapeutic purposes and for expressing GPR7 protein useful in
PT identifying drugs to treat psychological and neurological disorders.
XX
XX Claim 16; Page 13; 69pp; English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising a
CC nucleotide sequence which is a polymorphic variant of a reference
CC sequence for G-protein coupled receptor 7 (GPR7) gene or its fragment, or
CC a polymorphic variant of a reference sequence for a GPR7 cDNA or its
CC fragment. The encoded polypeptide (II) is useful for screening for drugs
CC targeting the polypeptide. (I) is useful for identifying an association

CC between a trait such as a clinical response to a drug targeting GPR7 and
 CC a haplotype or haplotype pair of GPR7 gene. Such methods have
 CC applicability in developing diagnostic tests and therapeutic treatments
 CC psychological and neurological disorders. (I) is useful for studying the
 CC expression and function of GPR7 and expressing GPR7 protein for use in
 CC screening for candidate drugs to treat diseases related to GPR7 activity.
 CC The polymorphism and haplotype data are useful for validating whether
 CC GPR7 is a suitable target for drugs to treat psychological and
 CC neurological disorders, screening for such drugs and reducing bias in
 CC clinical trials of such drugs. (I) is useful for therapeutic purposes.
 CC Establishing the GPR7 haplotype or haplotype pair of an individual is
 CC useful for improving the efficiency and reliability of several steps in
 CC the discovery and development of drugs for treating diseases associated
 CC with GPR7 activity psychological and neurological disorders. The
 CC haplotyping method is useful to validate GPR7 as a candidate target for
 CC treating a specific condition or disease predicted to be associated with
 CC GPR7 activity. The method is also useful in screening for compounds
 CC targeting GPR7 to treat a specific condition or disease predicted to be
 CC associated with GPR7 activity, e.g. detecting which of the GPR7
 CC haplotypes or haplotype pairs present in individual members of a
 CC population with the specific disease of interest enables one to screen
 CC for compounds that display the highest desired agonist or antagonist
 CC activity for each of the most frequent GPR7 isoforms present in the
 CC disease population. A polymorphic variant of GPR7 is useful in studying
 CC the effect of the variation on the biological activity of GPR7, on the
 CC binding affinity of candidate drugs targeting GPR7 for the treatment of
 CC psychological and neurological disorders and in assays to measure the
 CC binding affinities of one or more candidate drugs targeting the GPR7
 CC protein. (I) is useful for studying expression of the GPR7 isoforms in
 CC vivo, for in vivo screening and testing of drugs against GPR7 protein and
 CC for testing the efficacy of therapeutic agents and compounds for
 CC psychological and neurological disorders in a biological system. Antibody
 CC to (II) is useful for diagnostic and prognostic formats and therapeutic
 CC methods, for immunoprecipitating (II) from solution, for detecting GPR7
 CC protein isoforms in biological samples, frozen tissue sections, cells
 CC which have been fixed or unfixed and prepared on slides, for use in
 CC immunocytochemical, immunohistochemical and immunofluorescence
 CC techniques. ABK70517-ABK70558 represent human GPR7 allele-specific probes
 CC and primers used in haplotyping of human GPR7 as described in the
 CC invention
 XX
 SQ Sequence 15 BP; 3 A; 4 C; 7 G; 0 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;
 Best Local Similarity 85.7%; Pred. NO. 3.5e+02;
 Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 333 GACGACGAGGCG 346
 |||||
 DB 2 GACGAGCAGGCG 15

RESULT 913
 ABN80596/c
 ID ABN80596 standard; DNA; 15 BP.
 AC ABN80596;
 DT 19-JUL-2002 (first entry)
 DE Human P450(cytochrome) oxidoreductase allele specific PCR primer #36.
 XX Human; P450(cytochrome) oxidoreductase; POR; cancer; haplotype; SNP;
 KW single nucleotide polymorphism; flavoprotein; enzyme; PCR; primer; ss.
 XX Homo sapiens.
 OS
 XX WO200226768-A2.
 PN
 XX 04-APR-2002.
 PD
 XX 01-OCT-2001; 2001WO-US030877.
 PF
 XX

PR 29-SEP-2000; 2000US-0236449P.
 XX (GENA-) GENAISSANCE PHARM INC.
 PA Kazemi A, Kliem SE, Lanz EM, Messer C, Tanguay DA;
 PI WPI; 2002-394236/42.
 DR
 XX New genetic variants comprising haplotypes of the P450 (cytochrome)
 FT oxidoreductase (POR) isogene, useful in improving the efficiency of drug
 PT screening protocols for compounds targeting POR.
 XX
 PS Claim 14; Page 15; 141pp; English.
 XX The present invention provides the protein, gene and cDNA sequences of
 CC human P450(cytochrome) oxidoreductase POR, and single nucleotide
 CC polymorphisms (SNPs) identified therein. The sequences can be used to
 CC haplotypes the POR gene of an individual, and to establish whether POR is
 CC a suitable target for drugs to treat cancer and disorders associated with
 CC impaired protein synthesis in cells. The present sequence is an allele
 CC specific primer for the coding sequences of the invention
 XX
 SQ Sequence 15 BP; 2 A; 9 C; 2 G; 1 T; 0 U; 1 Other;
 Query Match 2.8%; Score 12; DB 1; Length 15;
 Best Local Similarity 85.7%; Pred. NO. 3.5e+02;
 Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 139 GCCTGGCGGTGGAG 152
 |||||
 DB 15 GYGTGGCGGTGGAG 2
 RESULT 914
 ABN87913/c
 ID ABN87913 standard; DNA; 15 BP.
 AC ABN87913;
 DT 12-AUG-2002 (first entry)
 XX Human GSR allele specific oligonucleotide primer SEQ ID NO:32.
 DE
 XX Human; glutathione reductase; GSR; enzyme; haemolytic anaemia; SNP;
 KW gene therapy; antianemic; polymorphic; single nucleotide polymorphism;
 XX primer; ss.
 XX Homo sapiens.
 OS
 XX Key Location/Qualifiers
 FT misc_feature 14
 FT /*tag= a
 FT /note= "polymorphic base"
 XX
 XX WO200242320-A2.
 XX
 XX 30-MAY-2002.
 XX
 XX 13-NOV-2001; 2001WO-US046473.
 XX
 XX 10-NOV-2000; 2000US-0247202P.
 XX (GENA-) GENAISSANCE PHARM INC.
 PA Bieglecki KM, Sanchis A, Sausker EA, Sun X;
 XX WPI; 2002-471719/50.
 DR
 XX New genetic variants of Glutathione reductase isogenes, useful for
 FT improving efficiency and reliability in drug development for treating
 PT hemolytic anemia.
 XX
 XX Claim 14; Page 14; 137pp; English.
 PS

XX The present invention describes genetic variants of the human glutathione
CC reductase (GSR) gene (I). (I) has antianaemic activity and can be used in
CC gene therapy. (I) can be used in screening for drugs targeting (I) that
CC are useful for treating haemolytic anaemia. Methods from the present
CC invention can be used for improving the efficiency and reliability of
CC several steps in the discovery and development of drugs for treating
CC diseases associated with GSR activity; for haplotyping, which is also
CC used by the pharmaceutical research scientist to validate GSR as a
CC candidate target for treating a specific condition or disease predicted
CC to be associated with GSR activity, e.g. haemolytic anaemia, and in the
CC design of clinical trials for treating a specific condition of disease
CC associated with GSR activity; and for screening compounds targeting GSR.
CC (I) is useful in studying the expression and function of GSR, and in
CC expressing GSR protein for use in screening for candidate drugs to treat
CC diseases related to GSR activity. (I) is also useful in studying the
CC effect of the variation on the biological activity of GSR as well as on
CC the binding affinity of candidate drugs targeting GSR for the treatment
CC of haemolytic anaemia. The present sequence represents an allele specific
CC oligonucleotide (ASO) primer for the human GSR gene, which is given in
CC the exemplification of the present invention. N.B. The polymorphic base
CC (showing a single nucleotide polymorphism) in the ASO primer is shown
CC using an IUPAC ambiguity code (as given in the present invention)
XX
SQ Sequence 15 BP; 1 A; 8 C; 4 G; 1 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.5e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 320 CGTGTGGCGCGG 333
DB 14 MGACTGGCGCGG 1

RESULT 915
ABL51980
ID ABL51980 standard; DNA; 15 BP.
XX
AC ABL51980;
XX
DT 11-JUL-2002 (first entry)
XX
DE Human SLC18A2 allele specific oligonucleotide primer SEQ ID NO:28.
XX
KW Human; solute carrier family 18 member 2; SLC18A2; vesicular monoamine;
KW vesicular monoamine transporter; VMAT2; polymorphic site; SNP;
KW single nucleotide polymorphism; antiinflammatory; neuroleptic;
KW haplotyping; genotyping; respiratory inflammatory disease;
KW neuropsychiatric disorder; monoaminergic brain system; primer; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT misc_feature 14
FT /*tag= a
FT /note= "polymorphic site indicated by an ambiguity base"
XX
PN WO200222652-A2.
XX
PD 21-MAR-2002.
XX
PF 17-SEP-2001; 2001WO-US042217.
XX
PR 15-SEP-2000; 2000US-0232895P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Anastasio AE, Han J, Klieh SE, Sausker EA;
XX
DR WPI; 2002-393942/42.
XX
PT Novel genetic variants of soluble carrier family 18 (vesicular

PT monoamine), member 2 gene useful for screening drugs to treat diseases
PT e.g. neuropsychiatric disorders involving monoaminergic brain systems.
XX
PS Claim 17; Page 14; 183pp; English.
XX
CC The present invention describes an isolated polynucleotide (I) having a
CC sequence (S1) comprising soluble carrier family 18 (vesicular monoamine),
CC member 2 (SLC18A2) isogene selected from 49 isogenes with regions of a
CC sequence (SS) of 4023 bp (see ABL51954), and defined by a corresponding
CC set of polymorphisms whose locations and identities are given in the
CC specification; or a sequence (S2) complementary to (S1). (I) has
CC antiinflammatory and neuroleptic activities, and can be used in gene
CC therapy. Methods from the present invention can be used for haplotyping
CC and genotyping the SLC18A2 gene in an individual. SLC18A2 is also known
CC as the vesicular monoamine transporter (VMAT2). (I) is useful in studying
CC the expression and function of SLC18A2, and in expressing the SLC18A2
CC protein for use in screening for candidate drugs to treat diseases
CC related to SLC18A2 activity and in studying the effect of the variation
CC on the biological activity of SLC18A2 as well as on the binding affinity
CC of candidate drugs targeting SLC18A2 for the treatment of respiratory
CC inflammatory diseases such as neuropsychiatric disorders involving
CC monoaminergic brain systems. The present sequence represents an allele
CC specific oligonucleotide (ASO) primer for human SLC18A2, which is given
CC in the present invention
XX
SQ Sequence 15 BP; 2 A; 7 C; 5 G; 0 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.5e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 106 ACCGGACCGCAGC 119
DB 1 ACCGGCGCCGCGAGY 14

RESULT 916
AAS19726/C
ID AAS19726 standard; DNA; 15 BP.
XX
AC AAS19726;
XX
DT 08-MAY-2002 (first entry)
XX
DE ASO probe #23 to detect human RANGAP1 gene polymorphisms.
XX
KW Human; single nucleotide polymorphism; SNP; RANGAP1;
KW haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1;
KW genotyping; cancer; irregular cell cycle associated disorder; ASO; probe;
KW ss; allele-specific oligonucleotide.
XX
OS Homo sapiens.
XX
PN WO200179240-A2.
XX
PD 25-OCT-2001.
XX
PF 17-APR-2001; 2001WO-US012455.
XX
PR 17-APR-2000; 2000US-0198072P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Chew A, Choi JY, Koshy B;
XX
DR WPI; 2002-075068/10.
XX
PT Genotyping human Ran GTPase activating protein 1 gene of individual for
PT determining haplotype of individual, involves determining identity of
PT nucleotide pair at specific polymorphic sites for two copies of the gene.
XX
PS Claim 15; Page 14; 148pp; English.
XX

CC The present invention relates to novel single nucleotide polymorphisms
CC (SNPs) in the human Ran GTPase activating protein 1 (RANGAP1) gene
CC located on chromosome 22q13.2-q13.31, and methods for haplotyping and/or
CC genotyping the RANGAP1 gene. The methods of the invention make use of
CC allele-specific oligonucleotides (ASOs) as probes and primers and/or
CC primer-extension oligonucleotides for detecting the RANGAP1 gene
CC polymorphisms. The polynucleotides and screened compounds are useful for
CC treatment of diseases associated with RANGAP1 activity, such as cancer
CC and other disorders associated with an irregular cell cycle. AAS19704-
CC AAS19742 represent ASO probes for detecting human RANGAP1 gene
CC polymorphisms
XX
SQ Sequence 15 BP; 2 A; 5 C; 4 G; 3 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.5e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 56 AGAGGAGTCTCTGC 69
Db 15 AGAGGAGGYCCTGC 2

RESULT 917
AAS97315/C
ID AAS97315 standard; DNA; 15 BP.
XX AC AAS97315;
XX AC AAS97315;
DT 12-MAR-2002 (first entry)
DE Human CRYBB1 gene ASO probe #10.
XX Human; crystallin beta B1; CRYBB1; chromosome 22q12.1; ophthalmological;
KW cataract; allele specific oligonucleotide; ASO; probe; ss; haplotype;
KW genotyping; transgenic animal.
OS Homo sapiens.
XX WO20018598-A1.
PN 15-NOV-2001.
XX 07-MAY-2001; 2001WO-US014715.
XX 05-MAY-2000; 2000US-0202253P.
XX (GENA-) GENAISSANCE PHARM INC.
XX Choi JY, Kazemi A, Kliem SE, Koshy B, Rounds E;
PI WPI; 2002-062253/08.
DR Novel polymorphic variants of crystallin, beta B1 useful in studying
PT expression and function of the protein, useful for screening candidate
PT drugs to treat diseases e.g. cataract.
XX Claim 15; Page 12; 94pp; English.
XX
CC The invention relates to an isolated polynucleotide comprising a sequence
CC which is a polymorphic variant of a reference sequence for crystallin,
CC beta B1 (CRYBB1), located on chromosome 22q12.1) Gene or their fragment,
CC where the polymorphic variant comprises a CRYBB1 isogene defined by a
CC haplotype from haplotypes 1-16 as given in the specification. Also
CC included are a transgenic non-human animal transformed or transfected
CC with the polymorphic variant, a computer system for storing and analysing
CC polymorphism data for CRYBB1 gene, a genome anthology for the CRYBB1 gene
CC which comprises the defined CRYBB1 isogenes, methods of determining an
CC individuals haplotype or genotype as well as methods of determining the
CC association of a particular haplotype with a disease or trait and a
CC composition comprising at least one genotyping oligonucleotide
CC (especially allele-specific oligonucleotides (ASO)) for detecting a
CC polymorphism in the CRYBB1. The isogenes or haplotypes are useful for

CC improving the efficiency and reliability of several steps in the
CC discovery and development of drugs for treating diseases associated with
CC CRYBB1 activity, e.g. cataract, and can also be used by the
CC pharmaceutical research scientist to validate CRYBB1 as a candidate
CC target for, and in design of clinical trials of candidate drugs for,
CC treating a specific condition or disease predicted to be associated
CC with CRYBB1 activity. The ASOs are useful as probes and primers, and for
CC assaying a polymorphism in the target region. The present sequence is an
CC ASO probe for CRYBB1
XX
SQ Sequence 15 BP; 3 A; 3 C; 8 G; 0 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.5e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 132 CTGGCCCGCCTGC 145
Db 15 CTGGCCCGCCTGC 2

RESULT 918
AAL46088/c
ID AAL46088 standard; DNA; 15 BP.
XX AC AAL46088;
XX AC AAL46088;
DT 11-JUL-2002 (first entry)
DE Human pro-platelet basic protein DNA allele-specific probe #4.
XX Human; pro-platelet basic protein; PPBP; metabolic disorder;
DE immunological disorder; SNP; single nucleotide polymorphism;
KW immunomodulator; chromosome 4q12-13; probe; ss.
OS Homo sapiens.
XX WO200229114-A1.
PN 11-APR-2002.
XX 09-OCT-2001; 2001WO-US031509.
XX 06-OCT-2000; 2000US-0238692P.
XX (GENA-) GENAISSANCE PHARM INC.
XX Chew A, Choi JY, Russo DP;
PI WPI; 2002-394352/42.
DR New Pro-Platelet Basic Protein (PPBP) gene polymorphic variants, useful
PT for studying the expression and function of PPBP and screening candidate
PT drugs for treating disorders associated with PPBP activity, e.g.
PT immunological disorders.
XX Claim 14; Page 12; 68pp; English.
XX
CC The present invention provides the protein, cDNA and genomic sequences of
CC human pro-platelet basic protein (PPBP) and single nucleotide
CC polymorphisms (SNPs) identified therein. The polymorphic variants are
CC useful in studying the expression and function of PPBP, in expressing
CC PPBP protein for use in screening for candidate drugs to treat diseases
CC related to PPBP activity in studying the effect of the variation on the
CC biological activity of PPBP, and the binding affinity of candidate drugs
CC targeting PPBP for the treatment of disorders associated with PPBP
CC activity, e.g. metabolic and immunological disorders. The present
CC sequence is an allele specific probe for the gene of the invention
XX
SQ Sequence 15 BP; 2 A; 4 C; 5 G; 3 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.5e+02;

Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 282 GGCACCAAGCTGCT 295
 Db 15 GGCACCAAGCTGCT 2

RESULT 919
 ABK32470/c
 ID ABK32470 standard; DNA; 15 BP.
 XX AC ABK32470;
 XX DT 23-APR-2002 (first entry)
 XX DE Human pancreatic cancer SAGE tag #22.
 XX KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
 KW KW serial analysis of gene expression; diagnostic; prognostic; probe;
 KW KW cancer marker; ss.
 XX OS Homo sapiens.
 XX FN US6333152-B1.
 XX PD 25-DEC-2001.
 XX PF 20-MAY-1998; 98US-00081646.
 XX PR 20-MAY-1998; 98US-00081646.
 XX PA (UJVO) UNIV JOHNS HOPKINS.
 XX PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
 XX WPI; 2002-153821/20.
 XX New human nucleic acid containing specific SAGE tags, useful as
 diagnostic markers for cancer, also derived probes.
 XX Disclosure; Col 65; 16pp; English.
 XX The invention relates to an isolated, purified human nucleic acid (I)
 CC that has the same sequence as a mRNA found in humans and is a SAGE
 CC (serial analysis of gene expression) tag comprising a single stranded
 CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
 CC diagnostic and prognostic markers of cancer, especially of the colon and
 CC pancreas. ABK3190-ABK32770 represent human colon and pancreatic cancer
 CC SAGE tags of the invention
 XX Sequence 15 BP; 3 A; 2 C; 6 G; 4 T; 0 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 3.5e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 92 CATCACCAAGTC 103
 Db 15 CATCACCAAGTC 4

RESULT 920
 AAQ21895
 ID AAQ21895 standard; DNA; 16 BP.
 XX AC AAQ21895;
 XX DT 11-JUN-1992 (first entry)
 XX DE TEG-terminated exonuclease stable oligonucleotide #9.
 XX KW tetraethylene glycol; cancer; antisense; gene expression; inhibition;
 KW diol; ss.

XX Synthetic.
 XX Key modified_base 1
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "see comments"
 FT modified_base 15
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "see comments"
 XX W09202534-A.
 XX 20-FEB-1992.
 XX 03-AUG-1990; 90US-00562180.
 XX 03-AUG-1990; 90US-00562180.
 PR 13-SEP-1990; 90US-00582287.
 PR 13-SEP-1990; 90US-00582456.
 PR 13-SEP-1990; 90US-00582457.
 PR 09-APR-1991; 91US-00682784.
 XX (STER) STERLING DRUG INC.
 XX Weis AL, Hausheer FH, Chaturvedu PVC, Delecki DJ, Cavanaugh PF;
 PI Moskwa PS, Oakes FT;
 XX WPI; 1992-080016/10.
 XX New oligo nucleoside(s) and nucleotide(s) with up to 200 bases - nuclease
 PT resistant anti sense cpds. useful for treating hereditary disorders of
 PT altered genetic expression mechanisms.
 XX Example 42; Page 70; 90pp; English.
 XX Two TEG molecules joined via a phosphate group are attached to the 5'
 CC terminus. The guanosine residue at position 15 is attached to the 3'
 CC adenosine residue by two TEG molecules which are joined via a phosphate
 CC group. The diol-contg. linking group forms phosphodiester bonds with G
 CC and A. The resulting oligonucleotide is resistant to exonuclease
 CC degradation. See also AAQ21884-Q21894 and AAQ21896-Q21918
 XX Sequence 16 BP; 2 A; 3 C; 9 G; 2 T; 0 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 16;
 Best Local Similarity 100.0%; Pred. No. 4e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 235 CGGAGGCTGCT 246
 Db 2 CGGAGGCTGCT 13

RESULT 921
 AAX62954/c
 ID AAX62954 standard; RNA; 17 BP.
 XX AC AAX62954;
 XX DT 16-JUL-1999 (first entry)
 XX DE Delta-9 desaturase hamerhead ribozyme target SEQ ID NO:829.
 XX KW Maize; corn; Zea mays; delta-9 desaturase; GBSS; target; substrate;
 KW KW granule bound starch synthase; hamerhead ribozyme; hairpin ribozyme;
 KW KW modulation; gene expression; transgenic plant; cleavage; canola plant;
 KW KW caffeine synthesis; coffee plant; nicotine production; tobacco;
 KW KW fruit ripening; flower pigmentation; lignin production; ss.
 XX Zea mays.

XX PN W09710328-A2.
XX PD 20-MAR-1997.
XX PF 12-JUL-1996; 96WO-US011689.
XX PR 13-JUL-1995; 95US-0001135P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (DOWC) DOWELANCO.
XX PI Zwick MG, Edington BE, Mcswiggen JA, Merlo PAO, Guo L, Skokut TA;
XX PI Young SA, Folkerts O, Merlo DJ;
XX DR WFI; 1997-202224/18.
XX PT Ribozyme which modulates plant gene expression - preferably modulates
XX PT expression of DELTA-9 desaturase or granule bound starch synthase in
XX PT maize or canola.
XX PS Claim 38; Page 86; 155pp; English.
XX CC The present invention describes an enzymatic nucleic acid molecule (I)
XX CC with RNA cleaving activity, which modulates the expression of a plant
XX CC gene. Also described is a gene comprising a cDNA sequence encoding maize
XX CC Delta-9 desaturase. (I) can be used to modulate expression of a gene,
XX CC preferably Delta-9 desaturase or a granule bound starch synthase (GBSS)
XX CC gene, in a plant (preferably a maize or canola plant). (I) can be used to
XX CC modulate caffeine synthesis in a coffee plant, nicotine production in a
XX CC tobacco plant, fruit ripening processes in an apple, tomato, pear, plum
XX CC or peach plant, flower pigmentation in a rose, pecunia, chrysanthemum or
XX CC marigold plant or lignin production in a tobacco, aspen, poplar or pine
XX CC plant
XX CC Sequence 17 BP; 2 A; 5 C; 3 G; 0 T; 7 U; 0 Other;
XX CC
XX CC Query Match 2.8%; Score 12; DB 1; Length 17;
XX CC Best Local Similarity 100.0%; Pred. No. 4.6e+02;
XX CC Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX CC
XX CC QY 120 AAGTACGGCATG 131
XX CC Db 12 AAGTACGGCATG 1
XX CC
XX CC RESULT 922
XX CC AAV92424/c
XX CC ID AAV92424 standard; RNA; 17 BP.
XX CC AC AAV92424;
XX CC DT 18-FEB-1999 (first entry)
XX CC DE Human A-Raf substrate position 511.
XX CC KW Human; c-raf; A-raf; B-raf; hamsterhead ribozyme; hairpin ribozyme;
XX CC KW target; substrate; catalyst; modulation; expression; Raf gene; delivery;
XX CC KW screening; identification; synthesis; deprotection; purification; cancer;
XX CC KW inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;
XX CC KW restenosis; rheumatoid arthritis; ss.
XX CC OS Homo sapiens.
XX CC KW WO9850530-A2.
XX CC PN 12-NOV-1998.
XX CC PD 05-MAY-1998; 98WO-US009249.
XX CC PF 09-MAY-1997; 97US-0046059P.
XX CC PR 09-JUN-1997; 97US-0049002P.
XX CC PR 03-JUL-1997; 97US-0051718P.

XX CC 22-AUG-1997; 97US-0056808P.
XX CC 02-OCT-1997; 97US-0061321P.
XX CC 02-OCT-1997; 97US-0061324P.
XX CC 05-NOV-1997; 97US-0064866P.
XX CC 19-DEC-1997; 97US-0068212P.
XX CC (RIBO-) RIBOZYME PHARM INC.
XX CC Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K, Bellon L;
XX CC Parry T, Beigelman L, Mcswiggen JA, Karpeisky A, Burgin A;
XX CC Thompson J, Workman CT, Beaudry A, Sweedler D;
XX CC WFI; 1999-009494/01.
XX CC Identifying new catalytic nucleic acid that modulates selected processes
XX CC - especially ribozymes that cleave Raf RNA for treating cancer,
XX CC restenosis, and also new ribozymes and modified nucleoside triphosphates
XX CC used as antiviral agents and synthons.
XX CC Claim 177; Page 157; 259pp; English.
XX CC A method has been developed for the identification of a nucleic acid
XX CC capable of modulating a process in a biological system. The method
XX CC comprises: (a) introducing into the system a random library of nucleic
XX CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising
XX CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC
XX CC in systems where modulation has occurred and/or determining the sequence
XX CC of at least part of the SBDs in such systems. Nucleic acid molecules with
XX CC endonuclease activity and catalytic activity, from the present invention,
XX CC are used to modulate gene expression in plant and mammalian cells and to
XX CC cleave target nucleic acid, particularly for treating systemic diseases
XX CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic
XX CC ascites and infection. They may also be used to detect genetic drift and
XX CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs
XX CC with RNA-cleaving activity that modulate expression of the Raf gene, are
XX CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or
XX CC generally any condition associated with the level of c-raf. Introduction
XX CC of sugar/phosphate modifications increases stability against nuclease and
XX CC activity. AAV90922 to AAV93877 represent NACs that can be used in the
XX CC method, specifically for modulating the expression of a Raf gene
XX CC
XX CC Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;
XX CC
XX CC Query Match 2.8%; Score 12; DB 1; Length 17;
XX CC Best Local Similarity 100.0%; Pred. No. 4.6e+02;
XX CC Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX CC
XX CC QY 396 AAGAGGTCCTTC 407
XX CC Db 12 AAGAGGTCCTTC 1
XX CC
XX CC RESULT 923
XX CC ABN01021
XX CC ID ABN01021 standard; DNA; 17 BP.
XX CC AC ABN01021;
XX CC DT 29-MAY-2002 (first entry)
XX CC DE Human GDMPL-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1013.
XX CC KW Human; genome-derived myosin-like protein 1; GDMPL-1; hGDMPL-1; heart;
XX CC KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX CC KW skeletal muscle disorder; amplicon; screening; ss.
XX CC OS Homo sapiens.
XX CC PN WO200192524-A2.
XX CC PD 06-DEC-2001.
XX CC PR 25-MAY-2001; 2001WO-US016981.

XX PR 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234697P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GS-00024263.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 05-FEB-2001; 2001WO-US000670.
 XX PR 05-FEB-2001; 2001US-0266860P.
 PA (AEOM-) AEOMICA INC.
 XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX WIPI; 2002-179446/23.
 XX PR New polypeptide, for raising antibodies that recognise hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX PR Disclosure; SEQ ID NO 1013; 214pp; English.
 XX PS The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX PR Sequence 17 BP; 8 A; 1 C; 8 G; 0 T; 0 U; 0 Other;
 XX PS Query Match 2.8%; Score 12; DB 1; Length 17;
 XX PR Best Local Similarity 100.0%; Pred. No. 4.6e+02;
 XX PS Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 206 GAAAGCAGAGAA 217
 DB |||||
 2 GAAAGCAGAGAA 13
 RESULT 924
 ABK17447/c
 ID ABK17447 standard; RNA; 17 BP.
 XX AC ABK17447;
 XX XX
 XX DT 09-APR-2002 (first entry)
 XX DE Human ERG hammerhead ribozyme target sequence, Seq ID No 94.
 XX ID ABK18041 standard; RNA; 17 BP.
 KW Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;
 KW vulvar; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 KW angiofibroma of tuberosus sclerosis; port-wine stain; wound healing;
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
 KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNazyme; inozyme;
 KW amberzyme.
 XX OS Homo sapiens.
 XX PR WO200188124-A2.
 XX PD 22-NOV-2001.
 XX PF 16-MAY-2001; 2001WO-US015866.
 XX PR 16-MAY-2000; 2000US-00572021.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PA (GLAX) GLAXO GROUP LTD.
 XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;
 XX WIPI; 2002-082995/11.
 XX PR Novel polynucleotide which down regulates expression of Ets-related gene,
 PT useful for treating cancer, diabetic retinopathy, macular degeneration,
 PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.
 XX PS Claim 4; Page 60; 149pp; English.
 XX CC The invention relates to a nucleic acid molecule (I) which down regulates
 CC expression of an Ets-related gene (ERG). (I) is useful for treating
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
 CC vulgaris, angiofibroma of tuberosus sclerosis, port-wine stains, Sturge
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
 CC treating a patient having a condition associated with the level of ERG,
 CC by contacting cells of the patient with (I) under conditions suitable for
 CC the treatment. The method comprises the use of one or more therapies
 CC under conditions suitable for the treatment. Leukaemia or tumour
 CC angiogenesis is treated by administering (I) to the patient in
 CC conjunction with one or more of other therapies such as radiation or
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent
 CC cation such as Mg²⁺. (I) is useful for diagnosis of conditions and
 CC diseases related to the expression of ERG, and as diagnostic tool to
 CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ERG RNA in a cell. (I) is useful for specifically
 CC targeting genes that share homology with ERG gene or ERG fusion genes.
 CC ABK17354-ABK2719 represent nucleic acids, including antisense and
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and
 CC related PCR primers of the invention
 XX PR Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;
 XX PS Query Match 2.8%; Score 12; DB 1; Length 17;
 XX PR Best Local Similarity 100.0%; Pred. No. 4.6e+02;
 XX PS Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 56 AGAGGAGTCTCT 67
 DB |||||
 13 AGAGGAGTCTCT 2
 RESULT 925
 ABK18041/c
 ID ABK18041 standard; RNA; 17 BP.

XX AC ABK18041;
 XX DT
 XX DE 09-APR-2002 (first entry)
 XX DE Human ERG hammerhead ribozyme target sequence, Seq ID No 688.
 XX DE
 XX DE Human; hammerhead ribozyme; cytosolic; antitumour; antidiabetic;
 XX DE ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;
 XX DE vulvar; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 XX DE tumour angiogenesis; diabetic retinopathy; macular degeneration;
 XX DE neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 XX DE angiofibroma of tuberosus sclerosis; port-wine stain; wound healing;
 XX DE Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
 XX DE Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;
 XX DE amberzyme.
 XX OS Homo sapiens.
 XX OS WO200188124-A2.
 XX PN 22-NOV-2001.
 XX PF 16-MAY-2001; 2001WO-US015866.
 XX PF 16-MAY-2000; 2000US-00572021.
 XX PR (RIBO-) RIBOZYME PHARM INC.
 XX PR (GLAX) GLAXO GROUP LTD.
 XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;
 XX PI WPI; 2002-082995/11.
 XX DR Novel polynucleotide which down regulates expression of Ets-related gene,
 XX PT useful for treating cancer, diabetic retinopathy, macular degeneration,
 XX PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.
 XX PS Claim 4; Page 71; 149pp; English.
 XX CC The invention relates to a nucleic acid molecule (I) which down regulates
 CC expression of an Ets-related gene (ERG). (I) is useful for treating
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
 CC vulgaris, angiofibroma of tuberosus sclerosis, port-wine stains, Sturge
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
 CC treating a patient having a condition associated with the level of ERG,
 CC by contacting cells of the patient with (I) under conditions suitable for
 CC the treatment. The method comprises the use of one or more therapies
 CC under conditions suitable for the treatment. Leukaemia or tumour
 CC angiogenesis is treated by administering (I) to the patient in
 CC conjunction with one or more of other therapies such as radiation or
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent
 CC cation such as Mg²⁺. (I) is useful for diagnosis of conditions and
 CC diseases related to the expression of ERG, and as diagnostic tool to
 CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ERG RNA in a cell. (I) is useful for specifically
 CC targeting genes that share homology with ERG gene or ERG fusion genes.
 CC ABK17354-ABK22719 represent nucleic acids, including antisense and
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and
 CC related PCR primers of the invention
 XX SQ Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 56 AGAGGAGTCTCT 67

Db 14 AGAGGAGTCTCT 3
 RESULT 926
 ABK18042/c
 ID ABK18042 standard; RNA; 17 BP.
 XX AC ABK18042;
 XX DT 09-APR-2002 (first entry)
 XX DE Human ERG hammerhead ribozyme target sequence, Seq ID No 689.
 XX DE
 XX DE Human; hammerhead ribozyme; cytosolic; antitumour; antidiabetic;
 XX DE ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;
 XX DE vulvar; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 XX DE tumour angiogenesis; diabetic retinopathy; macular degeneration;
 XX DE neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 XX DE angiofibroma of tuberosus sclerosis; port-wine stain; wound healing;
 XX DE Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
 XX DE Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;
 XX DE amberzyme.
 XX OS Homo sapiens.
 XX OS WO200188124-A2.
 XX PN 22-NOV-2001.
 XX PF 16-MAY-2001; 2001WO-US015866.
 XX PF 16-MAY-2000; 2000US-00572021.
 XX PR (RIBO-) RIBOZYME PHARM INC.
 XX PR (GLAX) GLAXO GROUP LTD.
 XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;
 XX PI WPI; 2002-082995/11.
 XX DR Novel polynucleotide which down regulates expression of Ets-related gene,
 XX PT useful for treating cancer, diabetic retinopathy, macular degeneration,
 XX PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.
 XX PS Claim 4; Page 71; 149pp; English.
 XX CC The invention relates to a nucleic acid molecule (I) which down regulates
 CC expression of an Ets-related gene (ERG). (I) is useful for treating
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
 CC vulgaris, angiofibroma of tuberosus sclerosis, port-wine stains, Sturge
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
 CC treating a patient having a condition associated with the level of ERG,
 CC by contacting cells of the patient with (I) under conditions suitable for
 CC the treatment. The method comprises the use of one or more therapies
 CC under conditions suitable for the treatment. Leukaemia or tumour
 CC angiogenesis is treated by administering (I) to the patient in
 CC conjunction with one or more of other therapies such as radiation or
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent
 CC cation such as Mg²⁺. (I) is useful for diagnosis of conditions and
 CC diseases related to the expression of ERG, and as diagnostic tool to
 CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ERG RNA in a cell. (I) is useful for specifically
 CC targeting genes that share homology with ERG gene or ERG fusion genes.
 CC ABK17354-ABK22719 represent nucleic acids, including antisense and
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and
 CC related PCR primers of the invention
 XX SQ

SQ Sequence 17 BP; 4 A; 7 C; 2 G; 0 T; 4 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 56 AGAGGAGTCTCT 67
 |||||
 DB 12 AGAGGAGTCTCT 1

RESULT 927
 ABK18967/c
 ID ABK18967 standard; RNA; 17 BP.
 XX
 AC ABK18967;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Human ERG DNAzyme target sequence Seq ID No 1614.
 XX
 KW Human; hammerhead ribozyme; cytosolic; antitumour; antidiabetic;
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;
 KW vulnary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
 KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;
 KW amberzyme.
 XX
 OS Homo sapiens.
 XX
 PN WO200188124-A2.
 XX
 PD 22-NOV-2001.
 XX
 PF 16-MAY-2001; 2001WO-US015866.
 XX
 PR 16-MAY-2000; 2000US-00572021.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (GLAXO) GLAXO GROUP LTD.
 XX
 PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;
 XX
 DR WPI; 2002-082995/11.
 XX
 PS Novel polynucleotide which down regulates expression of Ets-related gene,
 CC expression of an Ets-related gene (ERG). (I) is useful for treating
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
 CC treating a patient having a condition associated with the level of ERG,
 CC by contacting cells of the patient with (I) under conditions suitable for
 CC the treatment. The method comprises the use of one or more therapies
 CC under conditions suitable for the treatment. Leukaemia or tumour
 CC angiogenesis is treated by administering (I) to the patient in
 CC conjunction with one or more of other therapies such as radiation or
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent
 CC cation such as Mg2+. (I) is useful for diagnosis of conditions and
 CC diseases related to the expression of ERG, and as diagnostic tool to

CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ERG RNA in a cell. (I) is useful for specifically
 CC targeting genes that share homology with ERG gene or ERG fusion genes.
 CC ABK17354-ABK2719 represent nucleic acids, including antisense and
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and
 CC related PCR primers of the invention
 XX
 SQ Sequence 17 BP; 4 A; 5 C; 3 G; 0 T; 5 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 56 AGAGGAGTCTCT 67
 |||||
 DB 16 AGAGGAGTCTCT 5

RESULT 928
 ABK19225/c
 ID ABK19225 standard; RNA; 17 BP.
 XX
 AC ABK19225;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Human ERG Amberzyme target sequence Seq ID No 1872.
 XX
 KW Human; hammerhead ribozyme; cytosolic; antitumour; antidiabetic;
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;
 KW vulnary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
 KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;
 KW amberzyme.
 XX
 OS Homo sapiens.
 XX
 PN WO200188124-A2.
 XX
 PD 22-NOV-2001.
 XX
 PF 16-MAY-2001; 2001WO-US015866.
 XX
 PR 16-MAY-2000; 2000US-00572021.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (GLAXO) GLAXO GROUP LTD.
 XX
 PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;
 XX
 DR WPI; 2002-082995/11.
 XX
 PS Novel polynucleotide which down regulates expression of Ets-related gene,
 CC expression of an Ets-related gene (ERG). (I) is useful for treating
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
 CC treating a patient having a condition associated with the level of ERG,
 CC by contacting cells of the patient with (I) under conditions suitable for
 CC the treatment. The method comprises the use of one or more therapies
 CC under conditions suitable for the treatment. Leukaemia or tumour
 CC angiogenesis is treated by administering (I) to the patient in
 CC conjunction with one or more of other therapies such as radiation or
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent
 CC cation such as Mg2+. (I) is useful for diagnosis of conditions and
 CC diseases related to the expression of ERG, and as diagnostic tool to

angiogenesis is treated by administering (I) to the patient in conjunction with one or more of other therapies such as radiation or chemotherapy treatment. (I) is useful for reducing ERG activity in a cell, by contacting the cell with (I). (I) is useful for cleaving RNA of ERG gene, by contacting (I) with RNA, in the presence of a divalent cation such as Mg2+. (I) is useful for diagnosis of conditions and diseases related to the expression of ERG, and as diagnostic tool to examine genetic drift and mutations within diseased cells or to detect the presence of ERG RNA in a cell. (I) is useful for specifically targeting genes that share homology with ERG gene or ERG fusion genes. ABK17354-ABK22719 represent nucleic acids, including antisense and enzymatic nucleic acid molecules which regulate expression of ERG, and related PCR primers of the invention

Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 56 AGAGGAGTCTCT 67
Db 17 AGAGGAGTCTCT 6

RESULT 929
ID ABV91040 standard; DNA; 17 BP.
AC ABV91040;
XX
XX 23-DEC-2002 (first entry)
DT
DE Human POSHL1 scanning oligonucleotide SEQ ID NO 1753.
XX
XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW gene therapy; transgenic; ss.
XX
XX Homo sapiens.
XX
XX EPI239051-A2.
XX
XX 11-SEP-2002.
XX
XX 28-JAN-2002; 2002EP-00001165.
XX
XX 30-JAN-2001; 2001WO-US000663.
XX 30-JAN-2001; 2001WO-US000664.
XX 30-JAN-2001; 2001WO-US000665.
XX 30-JAN-2001; 2001WO-US000666.
XX 30-JAN-2001; 2001WO-US000667.
XX 30-JAN-2001; 2001WO-US000668.
XX 30-JAN-2001; 2001WO-US000669.
XX 30-JAN-2001; 2001WO-US000670.
XX 23-MAY-2001; 2001US-00864761.
XX 10-OCT-2001; 2001US-0328205P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Shannon M;
XX
XX WPI; 2002-684061/74.
XX
XX Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL
PT -1, useful for treating disorders associated with decreased expression or
PT activity of human POSHL1.
XX
XX Example 2; SEQ ID NO 1753; 60pp + Sequence Listing; English.
XX
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
CC acids (S1, ABB83999), a sequence having 65% sequence identity to (S1),
CC

(S1) having 95% deviations, especially conservative substitutions or a fragment of the sequences comprising at least 8 contiguous amino acids. Human POSHL 1 is a proto-oncogene/oncogene product that functions as an adaptor protein that interacts with Rho family small GTPases as well as downstream components of the signal transduction pathway. (I) is useful for identifying a specific binding partner. (I) and nucleic acids (II) encoding (I) are useful for diagnosing, monitoring disease and treating caused by altered expression of human POSHL1 including diagnosing and treating cancer, they are useful in the development of vaccines and (II) is useful in gene therapy. (II) is useful for constructing microarrays which are useful for measuring and for surveying gene expression and creating transgenic non-human animals capable of producing the proteins. The present sequence is that of a scanning oligonucleotide useful in examples of the invention. Note: The present sequence did not form part of the printed specification, but is based on sequence information supplied to Derwent by the European Patent Office

Sequence 17 BP; 2 A; 6 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 338 CCAGGCGCGGCT 349
Db 12 CCAGGCGCGGCT 1

RESULT 930
ACF63330
ID ACF63330 standard; DNA; 17 BP.
XX
XX ACF63330;
AC
DT 09-OCT-2003 (first entry)
XX
DE Human acetyl-CoA carboxylase antisense oligonucleotide SEQ ID NO:52.
XX
XX Human; pharmacological; hypotensive; antilipaeamic; vasotropic; laxative;
KW dermatological; antidepressant; tranquiliser; antiinflammatory; eczema;
KW antiulcer; antimigraine; neuroprotective; antiparkinsonian; analgesic;
KW gynaecological; virucide; vulnary; antiarthritic; antipsoriatic; cold;
KW antimicrobial; cytostatic; litholytic; pathological disorder; depression;
KW abnormal appetite; hypertension; hypercholesterolaemia; hyperlipidaemia;
KW erectile dysfunction; anxiety; stress; inflammatory bowel syndrome;
KW ulcerative colitis; Crohn's disease; renal stone; gall stone; migraine;
KW constipation; headache; seizure; multiple sclerosis; polymyositis;
KW fibromyalgia; Parkinson's disease; amyotrophic lateral sclerosis; trauma;
KW chronic pain; pre-menstrual syndrome; sinusitis; carpal tunnel syndrome;
KW inflammation; heart burn; infection; arthritis; psoriasis; prostatitis;
KW skin disorder; antisense oligonucleotide; ss.
XX
XX Homo sapiens.
OS
OS Synthetic.
XX
XX WO2003006478-A1.
XX
XX 23-JAN-2003.
XX
XX 10-JUL-2002; 2002WO-US021664.
XX
XX 10-JUL-2001; 2001US-0303820P.
XX
XX (OLIG-) OLIGOS ETC INC.
XX
XX Dale RMK, Arrow A, Thompson T;
XX
XX WPI; 2003-221709/21.
XX
XX Composition with a modified oligonucleotide useful for treating a patient
PT with a pathological disorder such as abnormal appetite, hypertension,
PT eczema, anxiety, stress, and cancer.

Claim 17; Page 9; 17pp; English.

The present invention describes a composition (I) suitable for administration in a mammal, which comprises a modified oligonucleotide (II) of 7-75 nucleotides containing 7 or more contiguous ribose groups linked by achiral 5'-3' internucleoside phosphate linkages, where the modified oligonucleotide is complementary to a region of a gene associated with a pathological disorder. Also described: (1) a nutritional supplement comprising (II); and (2) a cosmetic composition comprising (II), where the modified oligonucleotide is complementary to a region of a gene associated with a skin disorder. (I) and (II) can have hypotensive, antilipemic, vasotropic, dermatological, antidepressant, tranquiliser, antiinflammatory, antiulcer, laxative, antimigraine, neuroprotective, antiparkinsonian, analgesic, gynaecological, virucide, vulvunary, antiarthritic, antipsoriatic, antimicrobial, cytostatic and litholytic activities. (I) can be used for treating a patient with a pathological disorder selected from abnormal appetite, hypertension, hypercholesterolaemia, hyperlipidaemia, erectile dysfunction, eczema, depression, anxiety, stress, inflammatory bowel syndrome, ulcerative colitis, Crohn's disease, renal stones, gall stones, constipation, colds, migraine headache, seizure, multiple sclerosis, polymyositis, sinusitis, fibromyalgia, Parkinson's disease, amyotrophic lateral sclerosis (ALS), chronic pain, pre-menstrual syndrome, trauma, carpal tunnel syndrome, chronic fatigue syndrome, rosacea, arthritis, psoriasis, prostatitis, inflammation, heart burn, infection, poison ivy, colon cancer, malignant melanoma, and malignant nasal polyps. The nutritional supplement is useful for supplementing the diet of an individual, and the cosmetic composition is useful for improving the appearance of the skin in an individual with a skin disorder. ACF63279 to ACF63410 represent nucleotide sequence given in the exemplification of the present invention

Sequence 17 BP; 2 A; 4 C; 9 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 17;
Best Local Similarity 100.0%; Pred.No. 4.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 146 GGTCGAGGCCGG 157
 |||||
DB 4 GGTCGAGGCCGG 15

RESULT 931
ABT39673
ID ABT39673 standard; DNA; 17 BP.
AC AC
XX XX
DT DT
DE DE
XX XX
XX Cytostatic; virucide, neuroprotective; nootropic; neuroleptic; gene chip;
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; protein chip; gene therapy; tumour suppression;
KW human fukutin; ds.
XX Homo sapiens.
OS OS
XX WO2003025175-A2.
PN PN
XX 27-MAR-2003.
PD PD
XX 17-SEP-2002; 2002WO-IB004208.
PF PF
XX 17-SEP-2001; 2001FR-00011978.
PR PR
XX (MOLE-) MOLECULAR ENGINES LAB.
XX Telerman A, Amson R, Tuijnder M;
XX WPI. 2003-113353/30

07-DEC-1992; 92US-00987132.
18-MAY-1994; 94US-00245466.
15-AUG-1994; 94US-00291932.
23-DEC-1996; 96US-00777916.
(STIN//) STINCHCOMB D T.
(MCSW//) MCSWIGGEN J.
(DRAP//) DRAPER K G.
Stinchcomb DT, Mcswiggen J, Draper KG;
WPI; 2003-340953/32.
Novel enzymatic nucleic acid molecules which down regulates expression of
a sequence encoding a subunit of nuclear factor kappa B useful for
treating cancer, inflammatory disorders and autoimmune diseases.
Claim 3; Page 39; 72pp; English.
The invention describes an enzymatic nucleic acid molecule (I) which down
regulates expression of a sequence encoding a subunit of nuclear factor
kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme
configuration. The enzymatic nucleic acid molecule is adapted to treat
cancer and is useful for down-regulating REL-A activity in a cell, for
treating a patient having a condition associated with the level of REL-A.
(I) is useful for cleaving RNA comprising a sequence of REL-A gene, in
the presence of a divalent cation, especially Mg²⁺. The enzymatic and
antisense nucleic acid molecules are useful for treating breast, lung,
prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,
cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or
multidrug resistant cancer. The method involves use of other drug
therapies such as monoclonal antibodies, REL-A-specific inhibitors or
chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,
cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate,
gemcitabine or radiation therapy. The enzymatic and antisense nucleic
acid molecules are also useful for treating inflammatory disease such as
rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,
obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft
rejection, gene therapy applications, ischaemia/reperfusion injury
(central nervous system (CNS) and myocardial), glomerulonephritis,
sepsis, allergic airway inflammation, inflammatory bowel disease or
infection. This sequence represents the substrate of a novel enzymatic
nucleic acid molecule
XX Sequence 17 BP; 2 A; 11 C; 3 G; 0 T; 1 U; 0 Other;
Query Match 2.8%; Score 12; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 146 GGTGGAGGCCGG 157
DB 17 GGTGGAGGCCGG 6
RESULT 933
ACA07649
ID ACA07649 standard; RNA; 17 BP.
AC ACA07649;
XX
XX 03-JUN-2003 (first entry)
XX
XX NFkB sub-unit modulating zinzyme substrate #48.
XX
XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;
XX G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;
XX lung cancer; prostate cancer; colorectal cancer; brain cancer;
XX oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;
XX cervical cancer; head and neck cancer; ovarian cancer; melanoma;
XX lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;
XX chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;
XX cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate;

gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;
rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;
gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;
transplant/graft rejection; reperfusion injury; glomerulonephritis;
allergic airway inflammation; inflammatory bowel disease; infection; ss.
XX
XX Homo sapiens.
XX US2002177568-A1.
XX 28-NOV-2002.
XX 23-MAY-2003; 2001US-00864785.
XX 07-DEC-1992; 92US-00987132.
XX 18-MAY-1994; 94US-00245466.
XX 15-AUG-1994; 94US-00291932.
XX 23-DEC-1996; 96US-00777916.
XX (STIN//) STINCHCOMB D T.
XX (MCSW//) MCSWIGGEN J.
XX (DRAP//) DRAPER K G.
XX Stinchcomb DT, Mcswiggen J, Draper KG;
XX WPI; 2003-340953/32.
XX Novel enzymatic nucleic acid molecules which down regulates expression of
XX a sequence encoding a subunit of nuclear factor kappa B useful for
XX treating cancer, inflammatory disorders and autoimmune diseases.
XX Claim 3; Page 38; 72pp; English.
XX The invention describes an enzymatic nucleic acid molecule (I) which down
XX regulates expression of a sequence encoding a subunit of nuclear factor
XX kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme
XX configuration. The enzymatic nucleic acid molecule is adapted to treat
XX cancer and is useful for down-regulating REL-A activity in a cell, for
XX treating a patient having a condition associated with the level of REL-A.
XX (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in
XX the presence of a divalent cation, especially Mg²⁺. The enzymatic and
XX antisense nucleic acid molecules are useful for treating breast, lung,
XX prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,
XX cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or
XX multidrug resistant cancer. The method involves use of other drug
XX therapies such as monoclonal antibodies, REL-A-specific inhibitors or
XX chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,
XX cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate,
XX gemcitabine or radiation therapy. The enzymatic and antisense nucleic
XX acid molecules are also useful for treating inflammatory disease such as
XX rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,
XX obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft
XX rejection, gene therapy applications, ischaemia/reperfusion injury
XX (central nervous system (CNS) and myocardial), glomerulonephritis,
XX sepsis, allergic airway inflammation, inflammatory bowel disease or
XX infection. This sequence represents the substrate of a novel enzymatic
XX nucleic acid molecule
XX
XX Sequence 17 BP; 4 A; 4 C; 6 G; 0 T; 3 U; 0 Other;
Query Match 2.8%; Score 12; DB 1; Length 17;
Best Local Similarity 91.7%; Pred. No. 4.6e+02;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 268 ACCTGGAGCAGG 279
DB 2 ACCUGGAGCAGG 13
RESULT 934
ACC64123/C
ID ACC64123 standard; DNA; 17 BP.
XX

AC ACC64123;
 DT 01-JUL-2003 (first entry)
 DE Murine oligonucleotide associated with tumour suppression, SEQ ID 1370.
 DE Murine oligonucleotide associated with tumour suppression, SEQ ID 1370.
 KW Cytostatic; virucide; neuroprotective; neurotropic; neuroleptic; murine;
 KW tumour suppression; tumour reversion; apoptosis; virus resistance;
 KW viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;
 KW schizophrenia; ss.
 XX
 OS Mus musculus.
 XX
 PN WO2003025176-A2.
 XX
 PD 27-MAR-2003.
 XX
 XX 17-SEP-2002; 2002WO-IB004210.
 XX
 PR 17-SEP-2001; 2001FR-00011979.
 XX
 PA (MOLE-) MOLECULAR ENGINES LAB.
 XX
 PI Teلمان A, Anson R, Tuijnder M;
 XX WPI; 2003-333167/31.
 XX
 XX New isolated nucleic acid, useful for treating viral diseases associated
 XX with tumors and cell degeneration, also related polypeptides, antibodies
 XX and transfected cells.
 XX
 PS Disclosure; Page 191; 738pp; French.
 XX
 XX The present invention relates to murine oligonucleotides (ACC62754-
 CC ACC68806), which are associated with tumour suppression, tumour
 CC reversion, apoptosis and virus resistance. The oligonucleotides are
 CC useful as (1) as probes and primers for detecting, identifying,
 CC quantifying and/or amplifying nucleic acid, e.g. as one component of a
 CC gene chip; in vitro as (antisense reagents; and (2) for production of a
 CC recombinant polypeptides. The oligonucleotides are useful for preparation
 CC of pharmaceuticals for prevention and/or treatment of viral diseases that
 CC are characterised by development of tumours or cell degeneration,
 CC specifically cancer but also Alzheimer's disease and schizophrenia
 XX
 XX Sequence 17 BP; 6 A; 1 C; 7 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 2.8%; Score 12; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 366 CTCACCTTCCCG 377
 Db 15 CTCACCTTCCCG 4
 RESULT 935
 ID AAQ34452 standard; DNA; 18 BP.
 XX
 AC AAQ34452;
 XX
 XX 17-DEC-2001 (revised)
 DT 12-MAY-1993 (first entry)
 XX
 XX DQAI probe AG1, for alleles 0101, 0102 and 0103.
 XX
 XX Amplification; conformation polymorphism; SSCP; DQ-alpha; DQ-beta;
 KW cystic fibrosis; neurofibromatosis; ss.
 XX
 OS Synthetic.
 XX
 PN USN7751892-N.
 XX

PD 01-DEC-1992.
 XX
 PF 29-AUG-1991; 91US-00751892.
 XX
 PR 29-AUG-1991; 91US-00751892.
 XX
 PA (USSH) US DEPT HEALTH & HUMAN SERVICE.
 XX
 PI Mann D, Dean M, Carrington M, White MB;
 XX WPI; 1993-017809/02.
 DR
 XX Distinguishing multiple alleles and identifying new alleles - by single-
 PT strand conformation polymorphism technique using specific gel
 PT electrophoresis conditions.
 XX
 PS Disclosure; Page 19; 36pp; English.
 XX
 CC The oligomer AG1 represents a probe for DQA1 alleles 0101, 0102 and 0103
 CC and is used to distinguish multiple alleles of a gene of the immunoglobulin
 CC supergene family. The DNA encoding the gene of interest in a sample is
 CC amplified and then denatured. The amplified DNA is then separated on a
 CC non-denaturing polyacrylamide gel consisting of 5 percent bis-acrylamide
 CC with 0-10 percent glycerol, and the presence or absence of DNA bands,
 CC showing hybridisation is detected. Before amplification of the gene, the
 CC alleles may be divided into subsets by oligonucleotide hybridisation.
 CC Using single stranded conformation polymorphism (SSCP) multiple alleles
 CC in complex genetic systems can be distinguished e.g. DQ-alpha and DQ-beta
 CC and new alleles identified. The method may be used in studying genetic
 CC associations with disease, in forensic analyses and typing tissues for
 CC transplantation. The SSCP method has been used for detection of mutant
 CC alleles which correlate with the presence of disorders such as cystic
 CC fibrosis and neurofibromatosis. See also AAQ34443-73. (Note: Revised -
 CC entry submitted to correct the patent number format of US Government-
 CC owned NIS applications to prevent clashes with ongoing US granted patent
 CC numbers. For further information please visit the Derwent web site at
 CC www.derwent.com/dwpi/updates/nis_us.html.)
 XX
 XX Sequence 18 BP; 1 A; 5 C; 9 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 2.8%; Score 12; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 139 GCCTGGCGGTGG 150
 Db 1 GCCTGGCGGTGG 12
 RESULT 936
 ID AAX36716 standard; DNA; 18 BP.
 XX
 AC AAX36716;
 XX
 XX 14-JUL-1999 (first entry)
 DT
 XX PCR primer for Human phosphodiesterase, PDE8, coding sequence.
 DE
 XX Phosphodiesterase 8; PDE8; human; cyclic nucleotide pathway; therapy;
 XX intracellular cyclic nucleotide level modulation; cAMP; cGMP; PCR primer;
 KW ss.
 KW Synthetic.
 XX
 OS Homo sapiens.
 OS
 PN WO9919495-A1.
 XX
 XX 22-APR-1999.
 PD
 XX 16-OCT-1998; 98WO-US021956.
 PF
 XX 16-OCT-1997; 97US-00951648.
 PR

XX PA (ICOS-) ICOS CORP.
 XX PI Loughney K;
 XX PS WPI; 1999-277645/23.
 XX DR New isolated phosphodiesterase genes and polypeptides for identifying
 XX PT specific binding partners.
 XX PS Example 3; Page 14; 80pp; English.
 XX XX This sequence is a PCR primer for DNA encoding the human
 XX CC phosphodiesterase 8 (PDE8) of the invention. The phosphodiesterase genes
 XX CC and polypeptides are used to develop products for treating conditions in
 XX CC which cyclic nucleotide pathways are aberrant and for modulation of
 XX CC intracellular cyclic nucleotide levels. The PDE8 polypeptides exhibit
 XX CC high affinity for hydrolysis of both cAMP and cGMP but relatively low
 XX CC sensitivity to enzyme inhibitors specific for other PDE families. The
 XX CC PDE8A polypeptides and polynucleotides can be used for identifying their
 XX CC specific binding partners. The products can provide approaches for
 XX CC treating conditions in which cyclic nucleotide pathways are aberrant as
 XX CC well as conditions in which modulation of intracellular cAMP and/or cGMP
 XX CC levels in certain cell types is desirable
 XX SQ Sequence 18 BP; 4 A; 7 C; 2 G; 5 T; 0 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 62 GTCTCTGCACTA 73
 DB 3 GTCTCTGCACTA 14
 RESULT 937
 AAAS58509/c
 ID AAAS58509 standard; DNA; 18 BP.
 XX AC AAAS58509;
 XX DT 20-OCT-2000 (first entry)
 XX DE PCR primer used to amplify bleomycin (BLM) gene cluster ORP25.
 XX KW BLM gene cluster; bleomycin gene cluster; polyketide metabolite;
 KW bleomycin; bleomycin analogue; holo-carrier protein; thiazolidine;
 KW thiazoline; bithiazoline; microbial metabolite; sugar; PCR primer; ss.
 XX OS Streptomyces verticillus.
 XX PN WO200040704-A1.
 XX PD 13-JUL-2000.
 XX PF 06-JAN-2000; 2000WO-US000445.
 XX PR 06-JAN-1999; 99US-0115435P.
 XX PR 05-FEB-1999; 99US-0118848P.
 XX PR 05-JAN-2000; 2000US-00477962.
 XX XX (REGC) UNIV CALIFORNIA.
 XX PI Shen B, Du L, Sanchez C, Chen M, Edwards DJ;
 XX PS WPI; 2000-465974/40.
 XX XX New bleomycin gene cluster components useful for peptide and/or
 XX PT polyketide metabolites, especially bleomycin, production and for
 XX PT chemically modifying biological molecules.
 XX XX Disclosure; Page 22; 162pp; English.

XX CC PCR primers AAAS8474-A58541 were used to amplify open reading frames
 CC (ORFs) 8 to 41 of the BLM (bleomycin) gene cluster. The proteins encoded
 CC by the gene cluster are useful for producing peptides and/or polyketide
 CC metabolites, especially bleomycin or bleomycin analogues. They are also
 CC useful for chemically modifying biological molecules to produce branched
 CC methyl groups, and for coupling amino acids and fatty acids. They may be
 CC reacted with an apo-carrier protein and coenzyme A to produce a holo-
 CC carrier protein. The BLM gene cluster or catalytic domains can be used
 CC individually or collectively to produce thiazolidine, thiazoline,
 CC bithiazoline and bithiazoline-containing microbial metabolites. The BLM
 CC gene cluster may also be used to produce sugars
 XX SQ Sequence 18 BP; 1 A; 8 C; 3 G; 6 T; 0 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 326 GGCGGGGACGA 337
 DB 15 GGCGGGGACGA 4
 RESULT 938
 AAAS03269
 ID AAAS03269 standard; DNA; 18 BP.
 XX AC AAAS03269;
 XX DT 07-SEP-2001 (first entry)
 XX DE Mouse mRPL19 Taqman probe.
 XX KW Mouse; type-I cytokine receptor; TCCR; T-cell differentiation; Th1; Th2;
 KW agonist; antagonist; autoimmune inflammatory disease;
 KW allograft rejection; multiple sclerosis; inflammatory bowel disease;
 KW insulin-dependent diabetes mellitus; infectious disease;
 KW human immunodeficiency virus; allergic disorder; asthma;
 KW allergic rhinitis; HIV; probe; mRPL19; ss.
 XX OS Mus musculus.
 XX PN WO200129070-A2.
 XX PD 26-APR-2001.
 XX PF 18-OCT-2000; 2000WO-US028827.
 XX PR 20-OCT-1999; 99US-0160542P.
 XX XX (GETH) GENENTECH INC.
 XX PI De Sauvage FJ, Grewal I, Gurney AL;
 XX PS WPI; 2001-308474/32.
 XX XX Modulating T-cell differentiation and cytokine release profiles into Th1
 XX PT and Th2 subtypes, for treating immune-related diseases in mammals, by
 XX PT administering modulator of type I cytokine receptor (TCCR).
 XX PS Example 12; Fig 19; 126pp; English.
 XX XX The sequence is a probe used in a Taqman real-time PCR experiment used to
 XX CC demonstrate that mice deficient of type I cytokine receptor, mTCCR, are
 CC impaired in their ability to mount a Th1 response. The invention relates
 CC to methods of modulating the differentiation of T-cells into the Th2
 CC subtype instead of the Th1 subtype, by administering a modulator of TCCR
 CC (e.g. an antagonist) to enhance, stimulate or potentiate T-cell
 CC differentiation, or using TCCR polypeptide or its agonists to prevent,
 CC inhibit or attenuate T-cell differentiation. Th1 mediated disease in
 CC mammal can be treated by administering a TCCR antagonist and Th2 diseases
 CC by administering a TCCR agonist. Th1-mediated diseases include allograft

CC rejection and autoimmune inflammatory diseases, such as allergic
CC encephalomyelitis, multiple sclerosis, insulin-dependent diabetes
CC mellitus, autoimmune uveoretinitis, inflammatory bowel disease or
CC autoimmune thyroid disease. Th2-mediated diseases include infectious
CC diseases, such as leishmania major, Mycobacterium leprae, Candida
CC albicans, Toxoplasma gondii, respiratory syncytial virus and human
CC immunodeficiency virus (HIV) and allergic disorders, such as asthma,
CC allergic rhinitis, dermatitis and vernal conjunctivitis
XX
SQ Sequence 18 BP; 0 A; 7 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 246 TTCCCGGCTCG 257
 |||||
Db 1 TTCCCGGCTCG 12

RESULT 939
AAC66689
ID AAC66689 standard; DNA; 18 BP.
XX
AC AAC66689;
XX
DT 13-FEB-2001 (first entry)
XX
DE Human PDE8 PCR primer W48A9.
XX
KW Human; PDE8; phosphodiesterase 8; chromosome 6p26-27; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN US6133007-A.
XX
FD 17-OCT-2000.
XX
PF 16-OCT-1998; 98US-00174437.
XX
PR 16-OCT-1997; 97US-00951648.
XX
PA (ICOS-) ICOS CORP.
XX
PI Loughney K;
XX
WPI; 2001-006138/01.
XX
DR New phosphodiesterase 8A (PDE8A) polypeptides useful in the
PT systematic analysis of the structure and function of PDE8, and for
PT identifying molecules with which PDE8A will interact.
XX
PS Example 3; Col 10; 37pp; English.
XX
CC The present invention relates to human phosphodiesterase 8 (PDE8)
CC (AAC63695 and AA28256). Phosphodiesterases hydrolyse 3', 5' cyclic
CC nucleotides to their respective nucleoside 5' monophosphates. PDE8 may be
CC used in the systematic analysis of the structure and function of PDE8,
CC and for the identification of molecules with which PDE8 will interact.
CC PDE8 coding sequence may be used in hybridisation assays to detect the
CC capacity of cells to express PDE8, and as a basis for diagnostic methods
CC useful for identifying a genetic alteration in a PDE8 locus that
CC underlies a disease state or status. The human PDE8 gene has been
CC localised to chromosome 6p26-27. The present sequence is a PCR primer
CC used to isolate the coding sequence of human PDE8
XX
SQ Sequence 18 BP; 4 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 62 GTCTCTGCACTA 73

Db 3 GTCTCTGCACTA 14
 |||||

RESULT 940
AAS07305
ID AAS07305 standard; DNA; 18 BP.
XX
AC AAS07305;
XX
DT 12-SEP-2001 (first entry)
XX
DE CPS1/TES1 genomic DNA sequencing primer FP8.
XX
KW CPS1; peptide synthetase; peptide toxin; fungal pathogen;
KW corn crop infection; ss; sequencing primer; FP8.
XX
OS Cochliobolus heterostrophus.
XX
PN WO200138489-A2.
XX
PD 31-MAY-2001.
XX
PF 22-NOV-2000; 2000WO-US032227.
XX
PR 23-NOV-1999; 99US-00448215.
XX
PA (CORR) CORNELL RES FOUND INC.
XX
PI Yoder OC, Turgeon BC, Lu S;
XX
WPI; 2001-367672/38.
XX
DR New isolated nucleic acid molecule from a plant pathogen useful in
PT preventing plant pathogenic infections.
XX
PS Example 1; Page 54; 132pp; English.
XX
CC The sequence represents a sequencing primer used to sequence a genomic
CC clone from Cochliobolus heterostrophus which contains the CPS1 and TES1
CC peptide synthetase genes. CPS1 is an enzyme thought to be involved in the
CC production of peptide toxins, which are involved in the pathogenic
CC infection of corn crops. The nucleic acids and proteins can be used as
CC targets for anti-fungal compounds to prevent fungal corn infection and
CC the nucleic acids can be used in gene therapy to alter the biosynthetic
CC pathway for the peptide toxins to lower the pathogenicity of the fungi
XX
SQ Sequence 18 BP; 4 A; 4 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 ACGTGTGACCTG 272
 |||||
Db 1 ACGTGTGACCTG 12

RESULT 941
ABL44735/c
ID ABL44735 standard; DNA; 18 BP.
XX
AC ABL44735;
XX
DT 11-APR-2002 (first entry)
XX
DE Human chromosome 1p36-35 PCR primer SEQ ID NO:1779.
XX
KW Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;
KW PCR primer; ss.
XX
OS Homo sapiens.
XX

PN JP2001321190-A.
XX 20-NOV-2001.
PD 12-MAR-2001; 2001JP-00068285.
XX 10-MAR-2000; 2000JP-00066716.
XX (RIKA) RIKAGAKU KENKYUSHO.
XX (GENO-) GENOTEX YG.
PA WPI; 2002-144136/19.
DR Arraying genome clones.
XX Claim 4; Page 39; 528pp; Japanese.
XX
CC The present invention describes a method of arraying genome clones. The
CC method comprises: (a) clones of the genomic libraries contained in
CC multiwell plates numbered for discrimination are mixed in each of the
CC multiwell plates; (b) a primer designed based on the chromosome marker
CC sequence is added to the mixture to carry out an amplification reaction;
CC (c) a signal corresponding to the marker is detected from the resultant
CC amplified product to specify the discrimination Nos. of the multiwell
CC plates containing the clones having said marker sequence; (d) the order
CC of the markers is changed so that the same discrimination Nos. succeed to
CC the maximum in the specified discrimination Nos. to array the multiwell
CC plates; (e) the clones in the multiwell plates of the specified
CC discrimination Nos. are mixed respectively in each wells of longitudinal
CC and lateral directions; (f) the mixed clones are cultured and the
CC resultant cultures are amplified by using the above primer; (g) signals
CC are detected from the amplified products; (h) the clones in the multiwell
CC plates are specified from the detected result; and (i) the clones are
CC reconstituted as the positions on the chromosome and arrayed. The
CC microarray is useful for gene analysis. ABL42957 to ABL45322 represent
CC PCR primers for human chromosome 1p36-35 DNA, and ABL45323 to ABL45634
CC represent PCR primers for human chromosome 21q22.1, which are
CC specifically claimed for use in the present invention
XX
XX Sequence 18 BP; 1 A; 4 C; 7 G; 6 T; 0 U; 0 Other;
SQ
Query Match 2.8%; Score 12; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 41 AGATGGCCACCA 52
DB 17 AGATGGCCACCA 6
RESULT 942
ABS68429
ID ABS68429 standard; DNA; 18 BP.
XX
XX ABS68429;
XX
XX 19-NOV-2002 (first entry)
XX
XX Sequencing primer #20 for fungal DNA flanking REMI insertion site.
XX
XX Fungal pathogen, peptide synthetase gene cluster; iron reductase;
KW perasease; major facilitator superfamily transporter; MFS transporter;
KW anti-fungal agent; fungicide; pathogenic fungi; plant pathogen; CPS1;
KW animal pathogen; fungal infection; wild grass; cereal; corn; mycoidase;
KW leaf spot maize; immunocompromised vertebrate; pneumonia; arthritis;
KW mildy disease; bone infection; joint infection; skin disease;
KW aseptagitis; vaginitis; onychomycosis; inflammation; urinary tract;
KW kidney; liver; brain; gastrointestinal tract; lung; fungicidal;
KW mycoidal; antiarthritic; antiinflammatory; dermatological; COA ligase;
KW sequencing; primer; ss.
XX
XX Cochliobolus heterostrophus.
OS Synthetic.

XX WO200242444-A2.
XX 30-MAY-2002.
XX
XX 21-NOV-2001; 2001WO-US043381.
XX
XX 22-NOV-2000; 2000US-0252649P.
XX 22-NOV-2000; 2000US-0252732P.
XX (SYGN) SYNGENTA PARTICIPATIONS AG.
PA (CORR) CORNELL RES FOUND INC.
PA (YODE/) YODER O.
PA (TURG/) TURGEON B G.
PA (LUSS/) LU S.
XX
XX Yoder O, Turgeon BG, Lu S;
XX
XX WPI; 2002-666824/71.
XX
XX Nucleic acid molecules comprising fungal, e.g. Cochliobolus
PT heterostrophus, genes from a peptide synthetase gene cluster, useful for
PT identifying anti-fungal agents for treating fungal infections such as
PT pneumonia and arthritis.
XX
XX Example 1; Page 188; 315pp; English.
XX
CC The present invention relates to nucleic acid molecules comprising
CC fungal, e.g. Cochliobolus heterostrophus, genes from a peptide synthetase
CC gene cluster, encoding e.g. an iron reductase and/or a permease, or a
CC major facilitator superfamily (MFS) transporter protein. The
CC polynucleotides and polypeptides are useful for identifying a novel
CC fungicidal or mycoidal mode of action which permits rapid discovery of
CC novel inhibitors of gene products that are useful as fungicides or
CC mycoides. Anti-fungal agents identified using the polynucleotide and
CC polypeptide sequences of the invention, and antisense DNA are useful as
CC fungicides to suppress the growth of pathogenic fungi. The fungal
CC pathogens include plant pathogens such as Septoria tritici, or Cochliobolus
CC heterostrophus, or animal pathogens such as Candida albicans. The anti-
CC fungal agents are useful for treating fungal infections in plants such as
CC wild grasses or cereals (e.g. corn). For example they can be used to
CC treat a disease called leaf spot maize caused by the pathogen C.
CC heterostrophus. The anti-fungal agents are particularly useful for
CC treating fungal infections of vertebrates, including immunocompromised
CC vertebrates, for e.g. pneumonia, arthritis, mildy disease, bone and
CC joint infection, skin disease, aseptagitis, vaginitis, onychomycosis,
CC and inflammation of the urinary tract, kidney, liver, brain,
CC gastrointestinal tract and lung. ABS68410-ABS68443 represent sequencing
CC primers used to sequence C. heterostrophus DNA flanking the REMI vector
CC insertion site in the examples of the present invention
XX
XX Sequence 18 BP; 4 A; 4 C; 5 G; 5 T; 0 U; 0 Other;
SQ
Query Match 2.8%; Score 12; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 261 ACGGTGCACCTG 272
DB 1 ACGGTGCACCTG 12
RESULT 943
ABA03691
ID ABA03691 standard; DNA; 18 BP.
XX
XX ABA03691;
XX
XX 18-FEB-2002 (first entry)
XX
XX HSV-tk gene-del PCR primer TrTk1.
XX
XX Cytostatic; antitumour; gene therapy; thymidine kinase; tk;

KW splice acceptor site; splice donor site; cell destruction; cytostatic;
 KW cancer; herpes simplex virus; HSV; PCR primer; ss.
 XX
 OS Herpes simplex virus.
 OS Synthetic.
 XX
 PN WO200179502-A2.
 XX
 XX 25-OCT-2001.
 XX
 XX 13-APR-2001; 2001WO-GB001640.
 XX
 XX 13-APR-2000; 2000GB-00009966.
 XX
 XX (IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD.
 XX
 XX Apperley JP, Garin MI;
 XX WPI; 2002-026030/03.
 XX
 XX Novel polynucleotide comprising a thymidine kinase coding region encoding
 PT thymidine kinase, which does not contain a functional acceptor and/or
 PT splice donor site, useful for gene therapy techniques.
 XX
 XX Example 3; Page 59; 103pp; English.
 XX
 XX The invention relates to a polynucleotide encoding a thymidine kinase
 CC (tk), where the tk coding region does not contain a functional splice
 CC acceptor and/or splice donor site. The polynucleotide and the protein
 CC that it encodes are useful for destroying cells. The polynucleotide is
 CC introduced into the cells, allowing the cells to express tk. The cells
 CC are then contacted with a substantially non-toxic agent which is
 CC converted by tk into a toxic agent. The non-toxic agent is ganciclovir,
 CC acyclovir, trifluorothymidine, 1-(2-deoxy-2-fluoro-beta-D-arabino
 CC furanosyl)-5-iodouracil, ara-A, ara 1, 1-beta-D arabinofuranosyl
 CC thymine, 5-ethyl-2'-deoxyuridine, 5-iodo-5'-deoxyuridine,
 CC idoxuridine, AZT, AIV, dideoxycytidine, Ara C or bromovinyl deoxyuridine
 CC (BVDV). The polynucleotide is also useful for in vivo or ex vivo gene
 CC therapy, and for manufacturing a medicament for destroying cells in a
 CC patient. The polynucleotide is used to destroy cells that are, or have
 CC the potential to become, cancer cells. The polynucleotide does not
 CC contain a splice donor and/or splice acceptor site, and so there is no
 CC undesirable splicing, which would lead to the production of an aberrant
 CC form of the thymidine kinase gene. Thus a greater proportion of
 CC transduced target cells correctly express tk. The present sequence is a
 CC primer used to selectively amplify the deleted form of the herpes simplex
 CC virus (HSV)-tk gene using a 5' primer, which spans the truncation point
 XX
 SQ Sequence 18 BP; 2 A; 7 C; 6 G; 3 T; 0 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 335 CGACGAGGCGCG 346
 Db 3 CGACGAGGCGCG 14
 RESULT 944
 ABZ24285/c
 ID ABZ24285 standard; DNA; 18 BP.
 XX
 XX ABZ24285;
 XX
 DT 14-APR-2003 (first entry)
 XX
 DE Wheat TAA1 cDNA RACE antisense primer OL2893.
 XX
 XX TAA1; wheat; anther; fatty acyl Co-A reductase; FAR; plant; dwarfism;
 KW transgenic; lipid metabolism; plant growth; dermatological; octacosanol;
 KW fatty alcohol; pharmaceutical; nutritional; dietary; PCR; primer; ss.
 XX

OS Triticum aestivum.
 XX
 PN WO200299111-A2.
 XX
 XX 12-DEC-2002.
 PD
 XX 07-JUN-2002; 2002WO-CA000834.
 PF
 XX 07-JUN-2001; 2001US-0296159P.
 PR
 XX (CANA) NAT RES COUNCIL CANADA.
 PA
 XX Selvaraj G, Wang A, Xia Q, Xie W;
 PI WPI; 2003-167346/16.
 DR
 XX
 XX New isolated and purified anther-specific TAA1 nucleotide sequence,
 PT useful for the production of transgenic plants with increased or altered
 PT levels of fatty alcohols used as nutritional or pharmaceutical
 PT compositions.
 XX
 XX Example; Page 46; 124pp; English.
 PS
 XX The invention relates to novel isolated and purified polynucleotides,
 CC designated TAA1 genes, endogenously expressed in wheat anthers and encode
 CC polypeptides having fatty acyl Co-A reductase (FAR) activity. The TAA1
 CC genes are used to produce transgenic plants where the sequence expressed
 CC alters lipid metabolism of the transgenic plant. The octacosanol derived
 CC from the transgenic plant is useful as a nutritional supplement. The
 CC fatty alcohol derived from the transgenic plant is useful as a wax,
 CC cleaning agent, cosmetic agent, dermatological agent, pharmaceutical
 CC agent, nutritional agent or as a coating agent. A composition comprising
 CC a fatty alcohol derived from the transgenic plant is useful in a method
 CC of treating or preventing a medical condition. The methods are useful for
 CC providing a dietary supplement, the production and isolation of fatty
 CC alcohols, and for inducing dwarfism in plants. The methods and other
 CC compositions of the present invention are useful for the production of
 CC transgenic plants and other organisms that comprise increased or altered
 CC levels of fatty alcohols used as nutritional or pharmaceutical
 CC compositions. Sequences ABZ24280-86 represent primers used for isolating
 CC the wheat TAA1 genes
 XX
 SQ Sequence 18 BP; 4 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
 Query Match 2.8%; Score 12; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 337 ACCAGGCGCGCG 348
 Db 15 ACCAGGCGCGCG 4
 RESULT 945
 ADC26391
 ID ADC26391 standard; DNA; 18 BP.
 XX
 XX ADC26391;
 AC
 XX 18-DEC-2003 (first entry)
 DT
 XX NOV protein-related reverse PCR primer SEQ ID 216.
 DE
 XX NOV; cytostatic; metabolic disorder; immune; neurodegenerative;
 KW circulatory; haemopoietic; wasting; cancer; gene therapy; vaccine;
 KW transgenic; human; ss; PCR; primer.
 XX
 XX Homo sapiens.
 OS
 XX WO2003004687-A2.
 PN
 XX 16-JAN-2003.
 PD
 XX

PF 03-JUL-2002; 2002WO-US021361.
XX 05-JUL-2001; 2001US-0303046P.
PR 09-JUL-2001; 2001US-0303828P.
PR 09-JUL-2001; 2001US-0304016P.
PR 11-JUL-2001; 2001US-0304502P.
PR 13-JUL-2001; 2001US-0305262P.
PR 16-JUL-2001; 2001US-0305733P.
PR 17-JUL-2001; 2001US-0306085P.
PR 24-JUL-2001; 2001US-0307536P.
PR 27-JUL-2001; 2001US-0308228P.
PR 30-JUL-2001; 2001US-0308877P.
PR 01-AUG-2001; 2001US-0309255P.
PR 17-AUG-2001; 2001US-0313288P.
PR 12-SEP-2001; 2001US-0318711P.
PR 19-SEP-2001; 2001US-0323380P.
PR 21-SEP-2001; 2001US-0323969P.
PR 04-JAN-2002; 2002US-0345022P.
PR 04-JAN-2002; 2002US-0345038P.
PR 28-FEB-2002; 2002US-0361172P.
PR 01-MAR-2002; 2002US-0360814P.
PR 01-MAR-2002; 2002US-0360830P.
PR 01-MAR-2002; 2002US-0361133P.
PR 01-MAR-2002; 2002US-0361147P.
PR 05-MAR-2002; 2002US-0361677P.
PR 12-APR-2002; 2002US-0363637P.
PR 12-APR-2002; 2002US-0372326P.
PR 16-APR-2002; 2002US-0372980P.
PR 19-APR-2002; 2002US-0373981P.
PR 19-APR-2002; 2002US-0373921P.
PR 02-JUL-2002; 2002US-00188186.
XX (CURA-) CURAGEN CORP.
PA Anderson DW, Barghs C, Boldog FL, Burgess CE, Casman SJ;
XX Catterton E, Edinger S, Eisen AJ, Ellerman K, Garlach V, Gorman L;
XX Guo X, Jeffers M, Kekuda R, Li L, Malyankar UM, Miller CE;
XX Padigaru M, Patturajan M, Pena CE, Rastelli L, Shenoy S;
XX Shimkuts RA, Spaderna SK, Spytek KA, Stone DJ, Taupier RJ;
XX Vernet CAM, Voss EZ, Zhong M;
DR WPI; 2003-221607/21.
XX New isolated NOVX polypeptide, useful for determining the presence of, or
XX predisposition to a disease associated with altered levels of expression
XX of the polypeptide, and for treating or preventing cancer.
XX Example C; SEQ ID NO 216; 478pp; English.
XX The invention relates to a novel isolated NOV polypeptide. The
XX polypeptide of the invention demonstrates cytostatic activity and may be
XX used for determining the presence of, or predisposition to a disease
XX associated with altered levels of expression of the polypeptide,
XX including metabolic disorders, immune disorders, neurodegenerative
XX disorders, circulatory diseases, haemopoietic disorders, wasting diseases
XX and cancer. The polypeptide may also be utilised during gene therapy
XX procedures, vaccine development and transgenic animal production. The
XX current sequence is that of the PCR primer of the invention which was
XX used to analyse human NOV DNA.
XX Sequence 18 BP; 4 A; 5 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 2.8%; Score 12; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 344 CCGGCTGCTCTA 355
Db 2 CCGGCTGCTCTA 13
RESULT 946
AAD59994

AD59994 standard; DNA; 18 BP.
AAD59994;
18-DEC-2003 (first entry)
Human FB66a DNA sequencing primer, W48A9.
Phosphodiesterase 8; PDE8; human; PB66a; primer; ss.
Homo sapiens.
US6566087-B1.
20-MAY-2003.
11-OCT-2000; 2000US-00686055.
16-OCT-1997; 97US-00951648.
16-OCT-1998; 98US-00174437.
(ICOS-) ICOS CORP.
Loughney K;
WPI; 2003-719642/68.
Identifying a specific binding partner of phosphodiesterase 8 (PDE8)
useful for purifying PDE8 products in fluid samples comprises contacting
PDE8 with a compound and detecting binding.
Example 3; Col 10; 37pp; English.
The invention relates to a method for identifying a specific binding
partner of phosphodiesterase 8 (PDE8). The method is useful for
identifying a specific binding partner of PDE8, which inhibits or
enhances activity of PDE8. The binding partners of PDE8 are useful for
purification, detection or quantification of PDE8 products in fluid and
tissue samples using immunological procedures. Modulators of PDE8
activity are useful in treating a wide range of diseases and
physiological conditions in which PDE8 activity is known to be involved.
The present sequence is a primer used for sequencing human PDE8 A2 splice
variant DNA (PB66a)
Sequence 18 BP; 4 A; 7 C; 2 G; 5 T; 0 U; 0 Other;
Query Match 2.8%; Score 12; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 62 GTCCTGCACTA 73
Db 3 GTCCTGCACTA 14
RESULT 947
AAQ43232/c
ID AAQ43232 standard; DNA; 15 BP.
XX AAQ43232;
XX 25-MAR-2003 (revised)
DT 13-OCT-1993 (first entry)
XX B-B10 V region primer Vxfor.
XX Complementarity-determining region; CDR; humanised; antibody; h112R;
XX human; interleukin; IL-2; receptor; murine; anti-human; Ab; T-cell;
XX monoclonal antibody; B-B10; mixed lymphocyte reaction; variable; V;
XX region; PCR; framework; plasmid; heavy; H; light; L; amplify; primer;
XX polymerase chain reaction; ss.
XX Synthetic.

XX PN W09311238-A1.
 XX PD 10-JUN-1993.
 XX PF 03-DEC-1992; 92WO-JP001583.
 XX PR 06-DEC-1991; 91JP-00323319.
 XX PA (SUMU) SUMITOMO PHARM CO LTD.
 XX PA (BIOT) BIOTEST PHARMA GMBH.
 XX PA (INNO-) INNOTHERAPIE LAB.
 XX PI Nakatani T, Gomi H, Wijdenes J, Noguchi H;
 XX PR WPI; 1993-197057/24.
 XX PT Humanised antibody comprising - CDR region of mouse MAB B-B10 specific
 XX PT for IL-2 receptor useful for treating carcinoma expressing IL-2 receptor.
 XX PS Disclosure; Page 45; 62pp; English.
 XX CC The sequences given in AAQ43226-32 are primers which were used in the
 CC cloning of DNA encoding the variable (V) regions of the murine anti-
 CC human IL-2 receptor monoclonal Ab (MAB) B-B10. This MAB was used in the
 CC construction of a humanised antibody (Ab) which binds specifically to
 CC human interleukin (IL)-2 receptor (hIL2R). The complementarity-
 CC determining regions (CDRs) for the hIL2R MAB were derived from B-B10 (see
 CC also AAQ37599-04). The hIL2R MAB is antagonistic to the binding of IL-2
 CC to the IL-2 receptor on human T-cells. It also inhibits the human mixed
 CC lymphocyte reaction. The CDNA encoding the variable (V) region of the B-
 CC B10 Ab was cloned by PCR and sequenced (see also AAQ43233-36) A human Ab
 CC with high levels of amino acid sequence homology to the murine sequence
 CC was selected and the framework of this Ab was bound with the B-B10 V
 CC region CDR and a part of the framework to design several kinds of the
 CC humanised B-B10 V region. The DNA sequence coding this humanised B-B10
 CC was synthesised and a plasmid expressing humanised B-B10 was constructed.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX SQ Sequence 15 BP; 1 A; 7 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 OY 282 GGACCAAGCTGGTG 296
 DB 15 GGGACCAAGCTGGAG 1
 RESULT 948
 AAV48908/c
 ID AAV48908 standard; DNA; 15 BP.
 XX AC AAV48908;
 XX DT 15-OCT-1998 (first entry)
 XX DE c-fos gene antisense oligonucleotide c-fos-22.
 XX KW c-fos; antisense oligonucleotide; modulate; gene expression; ss.
 XX OS Synthetic.
 XX OS Homo sapiens.
 XX PN EP856579-A1.
 XX PD 05-AUG-1998.
 XX PF 31-JAN-1997; 97EP-00101531.
 XX PR 31-JAN-1997; 97EP-00101531.
 XX PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
 XX PI Schlingensiepen K, Brysch W;
 XX PR WPI; 1998-400910/35.

PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.

XX Schlingensiepen K, Brysch W;

XX WPI; 1998-400910/35.

XX Preparation of antisense oligonucleotide(s) which lack long runs of
 XX consecutive guanosine or inosine - and have specific ratio of residues
 XX able to form two or three hydrogen bonds, have greater activity and
 XX reduced toxicity, used therapeutically or to modulate growth of cells in
 XX culture.

XX Claim 10; Fig 7; 286pp; English.

XX AA48887-929 represent antisense oligonucleotides directed against the c-
 CC fos gene. Of these, only oligonucleotides AA48887-917 resulted in
 CC significant reduction in c-fos protein expression, while oligonucleotides
 CC AA48918-29 had little effect. The oligonucleotides exemplify the
 CC invention. The specification describes oligonucleotides that contain 8-30
 CC nucleotides, which contain at most 8 nucleotides that can each form three
 CC hydrogen bonds to cytosine; do not contain four consecutive nucleotides
 CC able to form three H-bonds each to four consecutive cytosines; do not
 CC contain two sequences of three consecutive nucleotides each able to form
 CC three H-bonds to three consecutive cytosines, and the ratio between
 CC residues able to form two H-bonds each (2R) or three such bonds (3R) is
 CC given by 2R/3R = 0.33-0.72. The oligonucleotides are used to modulate
 CC expression of genes, particularly the genes for p53, ErbB-2, junB, junD,
 CC TGF-beta 1 or beta 2 to control proliferation of primary cell cultures
 CC (e.g. bone marrow stem, liver or kidney cells, osteoclasts, osteoblasts
 CC and/or keratinocytes). The oligonucleotides can also be used to analyse
 CC function of proteins (by altering their expression or activity) and
 CC therapeutically, e.g. in cases of cancer or (targeting TGF) for
 CC stimulating the immune system

XX Sequence 15 BP; 2 A; 4 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;

Best Local Similarity 86.7%; Pred. No. 3.8e+02;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 286 CCAGCTGCTGAAGG 300

DB 15 CCACCTGCTGAAGG 1

RESULT 949

AAV48892

ID AAV48892 standard; DNA; 15 BP.

XX AC AAV48892;

XX DT 15-OCT-1998 (first entry)

XX DE c-fos gene antisense oligonucleotide c-fos-6.

XX KW c-fos; antisense oligonucleotide; modulate; gene expression; ss.

XX OS Synthetic.

XX OS Homo sapiens.

XX PN EP856579-A1.

XX PD 05-AUG-1998.

XX PF 31-JAN-1997; 97EP-00101531.

XX PR 31-JAN-1997; 97EP-00101531.

XX PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.

XX PI Schlingensiepen K, Brysch W;

XX WPI; 1998-400910/35.

XX Preparation of antisense oligonucleotide(s) which lack long runs of
PT consecutive guanosine or inosine - and have specific ratio of residues
PT able to form two or three hydrogen bonds, have greater activity and
PT reduced toxicity, used therapeutically or to modulate growth of cells in
PT culture.
XX Claim 10; Fig 7; 286pp; English.
XX AAV48887-929 represent antisense oligonucleotides directed against the c-
CC fos gene. Of these, only oligonucleotides AAV4887-917 resulted in
CC significant reduction in c-fos protein expression, while oligonucleotides
CC AAV48918-29 had little effect. The oligonucleotides exemplify the
CC invention. The specification describes oligonucleotides that contain 8-30
CC nucleotides, which contain at most 8 nucleotides that can each form three
CC hydrogen bonds to cytosine; do not contain four consecutive nucleotides
CC able to form three H-bonds each to four consecutive cytosines; do not
CC contain two sequences of three consecutive nucleotides each able to form
CC three H-bonds to three consecutive cytosines, and the ratio between
CC residues able to form two H-bonds each (2R) or three such bonds (3R) is
CC given by $2R/3R = 0.33-0.72$. The oligonucleotides are used to modulate
CC expression of genes, particularly the genes for p53, ErbB-2, junB, junD,
CC TGF-beta 1 or beta 2 to control proliferation of primary cell cultures
CC (e.g. bone marrow stem, liver or kidney cells, osteoclasts, osteoblasts
CC and/or keratinocytes). The oligonucleotides can also be used to analyse
CC function of proteins (by altering their expression or activity) and
CC therapeutically, e.g. in cases of cancer or (targeting TGF) for
CC stimulating the immune system
XX Sequence 15 BP; 4 A; 3 C; 6 G; 2 T; 0 U; 0 Other;
SQ Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 286 CCAAGCTGCTGAAG 300
DB 1 CCAAGCTGAGAGG 15
RESULT 950
AAV48699
ID AAV48699 standard; DNA; 15 BP.
XX AAV48699;
XX 15-OCT-1998 (first entry)
XX junB gene antisense oligonucleotide JunB-T-8.
XX junB; junD; antisense oligonucleotide; modulate; gene expression; ss.
XX Synthetic.
XX Homo sapiens.
XX EP856579-A1.
XX 05-AUG-1998.
XX 31-JAN-1997; 97EP-00101531.
XX 31-JAN-1997; 97EP-00101531.
XX (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX Schlingensiepen K, Brysch W;
XX WPI; 1998-400910/35.
XX Preparation of antisense oligonucleotide(s) which lack long runs of
PT consecutive guanosine or inosine - and have specific ratio of residues
PT able to form two or three hydrogen bonds, have greater activity and
PT reduced toxicity, used therapeutically or to modulate growth of cells in
PT culture.

PT culture.
XX Example 3; Fig 5c; 286pp; English.
XX AAV48564-708 represent antisense oligonucleotides directed against the
CC junB and junD genes. Of these, only oligonucleotides AAV48565-614
CC resulted in effective downregulation of negative growth control by JunB
CC or JunD, while AAV48615-708 had little effect. The oligonucleotides
CC exemplify the invention. The specification describes oligonucleotides that
CC contain 8-30 nucleotides, which contain at most 8 nucleotides that
CC can each form three hydrogen bonds to cytosine; do not contain four
CC consecutive nucleotides able to form three H-bonds each to four
CC consecutive cytosines; do not contain two sequences of three consecutive
CC nucleotides each able to form three H-bonds to three consecutive
CC cytosines, and the ratio between residues able to form two H-bonds each
CC (2R) or three such bonds (3R) is given by $2R/3R = 0.33-0.72$. The
CC oligonucleotides are used to modulate expression of genes, particularly
CC the genes for p53, ErbB-2, junB, junD, TGF-beta 1 or beta 2 to control
CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or
CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
CC oligonucleotides can also be used to analyse function of proteins (by
CC altering their expression or activity) and therapeutically, e.g. in cases
CC of cancer or (targeting TGF) for stimulating the immune system
XX Sequence 15 BP; 2 A; 4 C; 7 G; 2 T; 0 U; 0 Other;
SQ Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 147 GTGAGGCGGGCTTC 161
DB 1 GGGAGGCGAGCTTC 15
RESULT 951
AAV31429
ID AAV31429 standard; DNA; 15 BP.
XX AAV31429;
XX 21-MAY-1999 (first entry)
XX Tag sequence of a transcript decreased in colorectal cancer.
XX Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;
XX diagnosis; prognosis; treatment; ss.
XX Homo sapiens.
XX WO9853319-A2.
XX 26-NOV-1998.
XX 20-MAY-1998; 98WO-US010277.
XX 21-MAY-1997; 97US-0047352P.
XX (UYJO) UNIV JOHNS HOPKINS.
XX Vogelstein B, Kinzler KW;
XX WPI; 1999-070161/06.
XX Use of isolated gene transcripts - useful for developing products for the
PT diagnosis, prognosis and treatment of cancers, particularly colon and
PT pancreatic cancer.
XX Claim 1; Page 50; 120pp; English.
XX AAV30947-31815 represent tag sequences of transcripts that are
CC differentially expressed in colorectal cancer, in pancreatic cancer, or
CC in both. The tag sequences can be used to identify genes by matching the

CC tag to a gen data base member, or by using the tag sequences as probes to
 CC isolate unidentified genes from cDNA libraries. The tag sequences can
 CC also be used in a method for diagnosing colon or pancreatic cancer in a
 CC sample suspected of being neoplastic. The method comprises comparing the
 CC level of at least one transcript in a first sample of a tissue to a
 CC second sample, where the first sample is a colonic tissue suspected of
 CC being neoplastic and the second sample is a normal human colonic tissue.
 CC The transcript is identified by a tag selected from AAX30947-31815. The
 CC methods of the invention can be used in the diagnosis, prognosis and
 CC treatment of cancer

SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. NO. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301
 Db 1 CATGTTGGTGAAGGA 15

RESULT 952

AAX31675
 ID AAX31675 standard; DNA; 15 BP.

AC AAX31675;

DT 21-MAY-1999 (first entry)

DE Tag sequence of a transcript increased in pancreatic cancer.

KW Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;
 diagnosis; prognosis; treatment; ss.

OS Homo sapiens.

PN WO9853319-A2.

PD 26-NOV-1998.

PF 20-MAY-1998; 98WO-US010277.

PR 21-MAY-1997; 97US-0047352P.

PA (UWJO) UNIV JOHNS HOPKINS.

PI Vogelstein B, Kinzler KW;

DR WPI; 1999-070161/06.

PT Use of isolated gene transcripts - useful for developing products for the
 diagnosis, prognosis and treatment of cancers, particularly colon and
 pancreatic cancer.

PS Claim 13; Page 68; 120pp; English.

CC AAX30947-31815 represent tag sequences of transcripts that are
 CC differentially expressed in colorectal cancer, in pancreatic cancer, or
 CC in both. The tag sequences can be used to identify genes by matching the
 CC tag to a gen data base member, or by using the tag sequences as probes to
 CC isolate unidentified genes from cDNA libraries. The tag sequences can
 CC also be used in a method for diagnosing colon or pancreatic cancer in a
 CC sample suspected of being neoplastic. The method comprises comparing the
 CC level of at least one transcript in a first sample of a tissue to a
 CC second sample, where the first sample is a colonic tissue suspected of
 CC being neoplastic and the second sample is a normal human colonic tissue.
 CC The transcript is identified by a tag selected from AAX30947-31815. The
 CC methods of the invention can be used in the diagnosis, prognosis and
 CC treatment of cancer

SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. NO. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301
 Db 1 CATGTTGGTGAAGGA 15

RESULT 953

AAX59553/C
 ID AAX59553 standard; DNA; 15 BP.

AC AAX59553;

DT 21-JUL-1999 (first entry)

DE Intron 2/exon 3 junction of the mouse Pitx3 gene.

KW Pitx3; homeobox domain protein; lens development; lens disorder;
 cataract; detection; ocular disease; ASMD; Peter's anomaly;
 anterior segment mesenchymal dysgenesis; ss.

OS Mus sp.

PN WO9921996-A1.

PD 06-MAY-1999.

PF 26-OCT-1998; 98WO-US022689.

PR 24-OCT-1997; 97US-00957351.

PA (IOWA) UNIV IOWA RES FOUND.

PI Semina EV, Murray JC;

DR WPI; 1999-312965/26.

PT Pitx3, homeobox protein, and related nucleic acid sequences.

PS Example 6; Page 103; 128pp; English.

CC AAX59550-53 represent intron/exon and exon/intron junctions of the mouse
 CC Pitx3 gene. Pitx3 proteins are homeobox domain proteins, which are
 CC involved in the development of the lens and contribute to diseases and
 CC disorders of the lens, such as cataracts. The Pitx3 nucleic acids (e.g.
 CC antisense sequences, ribozymes and triplex nucleic acids), probes derived
 CC from them and polypeptides, are useful in claimed methods to detect an
 CC ocular disease, especially of the lens, e.g. cataract formation. Specific
 CC conditions that can be detected and treated are Anterior Segment
 CC Mesenchymal Dysgenesis (ASMD) and Peter's anomaly

SQ Sequence 15 BP; 3 A; 6 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. NO. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 15 CTGCGGTTACCCGAG 29
 Db 15 CTGCGGTTACCCGAG 1

RESULT 954

AAC73381/C

ID AAC73381 standard; DNA; 15 BP.

AC AAC73381;

DT 02-FEB-2001 (first entry)

DE Forward primer #78 used in multiplexing PCR/SBE assay.

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XX XX Oligonucleotide array; genotyping; single base extension reaction; SBE;
XX KW PCR primer; polymorphic locus; single nucleotide polymorphism; ss.
XX OS Unidentified.
XX XX WO200058516-A2.
XX XX 05-OCT-2000.
XX XX 27-MAR-2000; 2000WO-US008069.
XX XX 26-MAR-1999; 99US-0126473P.
XX PR 23-JUN-1999; 99US-0140359P.
XX XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX PA (AFFY-) AFFMETRIX INC.
XX XX
XX PI Fan J, Hirschhorn JN, Huang X, Kaplan P, Lander ES, Lockhart DJ;
XX PI Ryder T, Sklar P;
XX XX WPI; 2000-656171/63.
XX XX Universal array of oligonucleotides tags attached to a solid substrate
XX PT along with locus-specific tagged oligonucleotides useful in genotyping
XX PT using single base extension reactions.
XX XX
XX PS Example 7; Page 56; 70pp; English.
XX XX The present invention relates to an oligonucleotide array comprising
XX CC oligonucleotide tags fixed to a solid substrate. The oligonucleotide
XX CC array is useful for genotyping a nucleic acid sample at one or more loci
XX CC via single base extension (SBE) reactions. A pair of primers is used to
XX CC amplify a polymorphic locus in a sample e.g. a single nucleotide
XX CC polymorphism (SNP). The present sequence is, one of the primers used in
XX CC the method of the present invention to amplify a polymorphic sample. The
XX CC amplified nucleic acid product is then used as a template in a SBE
XX CC reaction with an extension primer. The SBE reaction products are used to
XX CC form the oligonucleotide array
XX XX
XX SQ Sequence 15 BP; 4 A; 5 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 153 GCGCGCTTCGACTGG 167
DB 15 GCGCGCTTCCTCTGG 1

RESULT 955
AAF47147/C
ID AAF47147 standard; DNA; 15 BP.
XX AC
XX DT 30-MAR-2001 (first entry)
XX AC
XX DE IGFBP3 oligonucleotide #567.
XX XX
XX XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX XX WO200078341-A1.
XX XX 28-DEC-2000.
XX XX 21-JUN-2000; 2000WO-AU000693.

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XX XX 28-DEC-2000.
XX XX 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX XX (MURD-) MURDOCH CHILDRENS RES INST.
XX PA
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX XX WPI; 2001-041421/05.
XX DR
XX XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX XX
XX PS Example 7; Page 47; 201pp; English.
XX XX The present invention relates to a method for ameliorating the effects of
XX CC skin disorders. The method comprises contacting the skin with an
XX CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX CC inhibiting or reducing growth factor mediated cell proliferation,
XX CC inflammation and/or other disorders. The present sequence is an
XX CC oligonucleotide which can be used to design the antisense
XX CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX CC F45161). The method is useful for ameliorating the effects of psoriasis,
XX CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX CC hyperneovascular condition such as a neovascular condition of the retina,
XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
XX CC disease, kidney disease, hyperproliferation of the inside of blood
XX CC vessels or any other hyperplasia
XX XX
XX SQ Sequence 15 BP; 2 A; 8 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 319 GCGTCTGCGCGCG 333
DB 15 GCGTCTGCGAGACGG 1

RESULT 956
AAF50769
ID AAF50769 standard; DNA; 15 BP.
XX AC
XX AC AAF50769;
XX XX
XX DT 30-MAR-2001 (first entry)
XX XX
XX DE IGF-I oligonucleotide #1729.
XX XX
XX XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX XX WO200078341-A1.
XX XX 28-DEC-2000.
XX XX 21-JUN-2000; 2000WO-AU000693.

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XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX DR WPI; 2001-041421/05.
XX PS
XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX PT UV (ultra-violet) treatment (optional) and an antisease nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS
XX PS Example 8; Page 72; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
XX CC skin disorders. The method comprises contacting the skin with an
XX CC antisease oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX CC inhibiting or reducing growth factor mediated cell proliferation,
XX CC inflammation and/or other disorders. The present sequence is an
XX CC oligonucleotide which can be used to design the antisease
XX CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX CC P45161). The method is useful for ameliorating the effects of psoriasis,
XX CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX CC hyperneovascular condition such as a neovascular condition of the retina,
XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
XX CC disease, kidney disease, hyperproliferation of the inside of blood
XX CC vessels or any other hyperplasia
XX CC
XX CC Sequence 15 BP; 2 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
XX SQ
XX Query Match 2.8%; Score 11.8; DB 1; Length 15;
XX Best Local Similarity 86.7%; Pred. No. 3.8e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 147 GTGGAGCCGGCTTC 161
XX DB 1 GTGGAGCCGGCATC 15
XX
XX RESULT 957
XX AAF47144/C
XX ID AAF47144 standard; DNA; 15 BP.
XX AC AAF47144;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #564.
XX KW Antisease therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX DR WPI; 2001-041421/05.
XX
XX Wraight CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisease nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
XX Example 7; Page 47; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antisease oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antisease
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX P45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX hyperneovascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia
XX
XX Sequence 15 BP; 2 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
XX SQ
XX Query Match 2.8%; Score 11.8; DB 1; Length 15;
XX Best Local Similarity 86.7%; Pred. No. 3.8e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 322 TGCTGGCGGCGACG 336
XX DB 15 TGCTGGAGCGGACG 1
XX
XX RESULT 958
XX AAF50342
XX ID AAF50342 standard; DNA; 15 BP.
XX AC AAF50342;
XX DT 30-MAR-2001 (first entry)
XX DE IGF-I oligonucleotide #1302.
XX KW Antisease therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX DR WPI; 2001-041421/05.

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XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisease nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
PS Example 8; Page 69; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisease oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisease
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 2 A; 6 C; 2 G; 5 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 404 CTTCTACGTGTCGA 418
Db 1 CTTCTACGTGTCGA 15
RESULT 959
AAF47290
ID AAF47290 standard; DNA; 15 BP.
XX
AC AAF47290;
XX
DT 30-MAR-2001 (first entry)
XX
DE IGFBP3 oligonucleotide #710.
XX
KW Antisease therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wright CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisease nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or

PT inflammation.
XX
PS Example 7; Page 48; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisease oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisease
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 3 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 171 TACTACGAGTCCAAAG 185
Db 1 TCCTCCGAGTCCAAAG 15
RESULT 960
AAF52600
ID AAF52600 standard; DNA; 15 BP.
XX
AC AAF52600;
XX
DT 30-MAR-2001 (first entry)
XX
DE IGF-I oligonucleotide #3560.
XX
KW Antisease therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wright CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisease nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
PS Example 8; Page 84; 201pp; English.
XX

CC The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX
 SQ Sequence 15 BP; 0 A; 6 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 240 GGCTGCTTCCCGGC 254
 |||||
 Db 1 GGCTGCTCCCGGC 15

RESULT 961
 AAF47145/C
 ID AAF47145 standard; DNA; 15 BP.

XX AC AAF47145;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGFBP3 oligonucleotide #565.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.

XX OS Homo sapiens.
 XX
 XX WO200078341-A1.
 XX
 XX 28-DEC-2000.
 XX
 XX 21-JUN-2000; 2000WO-AU000693.
 XX
 XX 21-JUN-1999; 99US-0140345P.
 XX
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 XX Wraight CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 XX inhibits or reduces growth factor mediated cell proliferation and/or
 XX inflammation.

XX Example 7; Page 47; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of
 XX skin disorders. The method comprises contacting the skin with an
 XX antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of

CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX

SQ Sequence 15 BP; 2 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 321 GTGCTGCGCGGAC 335
 |||||
 Db 15 GTGCTGCGGACGGAC 1

RESULT 962
 AAF45774
 ID AAF45774 standard; DNA; 15 BP.

XX AC AAF45774;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGFBP2 oligonucleotide #613.

XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.

XX OS Homo sapiens.
 XX
 XX WO200078341-A1.
 XX
 XX 28-DEC-2000.
 XX
 XX 21-JUN-2000; 2000WO-AU000693.
 XX
 XX 21-JUN-1999; 99US-0140345P.
 XX
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 XX Wraight CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 XX inhibits or reduces growth factor mediated cell proliferation and/or
 XX inflammation.

XX Example 6; Page 38; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of
 XX skin disorders. The method comprises contacting the skin with an
 XX antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 XX inhibiting or reducing growth factor mediated cell proliferation,
 XX inflammation and/or other disorders. The present sequence is an
 XX oligonucleotide which can be used to design the antisense
 XX oligonucleotides of the present invention (see AAF45151 and AAF45153-

CC F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia

XX Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. NO. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 87 GTGGACATCACCACG 101
Db 1 GTGGACAGCACCATG 15

RESULT 963
AAF46991
ID AAF46991 standard; DNA; 15 BP.
XX AAF46991;
AC AAF46991;
XX 30-MAR-2001 (first entry)
DT IGFBP3 oligonucleotide #411.
DE Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

XX Homo sapiens.
OS
XX WO200078341-A1.
PN
XX 28-DEC-2000.
PD
XX 21-JUN-2000; 2000WO-AU000693.
PF
XX 21-JUN-1999; 99US-0140345P.
PR
XX (MURD-) MURDOCH CHILDRENS RES INST.
PA
XX Wright CJ, Werther GA, Edmondson SR;
PI
XX WPI; 2001-041421/05.
DR
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

XX Example 7; Page 46; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina,

CC brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia

XX Sequence 15 BP; 2 A; 6 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. NO. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 108 CGCGACCGCAGCAAG 122
Db 1 CGCGACCGCTGCAGG 15

RESULT 964
AAF47146/C
ID AAF47146 standard; DNA; 15 BP.
XX AAF47146;
AC AAF47146;
XX 30-MAR-2001 (first entry)
DT IGFBP3 oligonucleotide #566.
DE Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

XX Homo sapiens.
OS
XX WO200078341-A1.
PN
XX 28-DEC-2000.
PD
XX 21-JUN-2000; 2000WO-AU000693.
PF
XX 21-JUN-1999; 99US-0140345P.
PR
XX (MURD-) MURDOCH CHILDRENS RES INST.
PA
XX Wright CJ, Werther GA, Edmondson SR;
PI
XX WPI; 2001-041421/05.
DR
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

XX Example 7; Page 47; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia

SQ Sequence 15 BP; 2 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 320 CGTGGTGGCGGCGGA 334
 DB 15 CGTGGTGGAGACCGA 1

RESULT 965
 AAF51317
 ID AAF51317 standard; DNA; 15 BP.
 XX
 AC AAF51317;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGF-I oligonucleotide #2277.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 OS Homo sapiens.
 XX
 FN WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU000693.
 XX
 PR 21-JUN-1999; 99US-0140345P.
 XX
 PA (MURDOCH CHILDRENS RES INST.
 XX
 PI Wright CJ, Werther GA, Edmondson SR;
 XX
 DR WPI; 2001-041421/05.
 XX
 PS Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.
 XX
 PS Example 8; Page 75; 201pp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX
 SQ Sequence 15 BP; 5 A; 6 C; 3 G; 1 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 OY 86 AGTGGACATCACCAC 100
 DB 1 AGTGGCCACACACCAC 15

RESULT 966
 AEN87915/c
 ID AEN87915 standard; DNA; 15 BP.
 XX
 AC AEN87915;
 XX
 DT 12-AUG-2002 (first entry)
 XX
 DE Human GSR allele specific oligonucleotide primer SEQ ID NO:34.
 XX
 KW Human; glutathione reductase; GSR; enzyme; haemolytic anaemia; SNP;
 KW gene therapy; antianaemic; polymorphic; single nucleotide polymorphism;
 KW primer; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT misc_feature 14
 FT /*tag= a
 FT /note= "polymorphic base"
 XX
 PN WO200242320-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 13-NOV-2001; 2001WO-US046473.
 XX
 PR 10-NOV-2000; 2000US-0247202P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Blegiecki KM, Sanchis A, Sausker EA, Sun X;
 XX
 DR WPI; 2002-471719/50.
 XX
 PS New genetic variants of Glutathione reductase isogenes, useful for
 PT improving efficiency and reliability in drug development for treating
 PT hemolytic anemia.
 XX
 PS Claim 14; Page 14; 137pp; English.
 XX
 CC The present invention describes genetic variants of the human glutathione
 CC reductase (GSR) gene (1). (1) has antianaemic activity and can be used in
 CC gene therapy. (1) can be used in screening for drugs targeting (1) that
 CC are useful for treating haemolytic anaemia. Methods from the present
 CC invention can be used; for improving the efficiency and reliability of
 CC several steps in the discovery and development of drugs for treating
 CC diseases associated with GSR activity; for haplotyping, which is also
 CC used by the pharmaceutical research scientist to validate GSR as a
 CC candidate target for treating a specific condition or disease predicted
 CC to be associated with GSR activity, e.g. haemolytic anaemia, and in the
 CC design of clinical trials for treating a specific condition of disease
 CC associated with GSR activity; and for screening compounds targeting GSR.
 CC (1) is useful in studying the expression and function of GSR, and in
 CC expressing GSR protein for use in screening for candidate drugs to treat
 CC diseases related to GSR activity. (1) is also useful in studying the
 CC effect of the variation on the biological activity of GSR as well as on
 CC the binding affinity of candidate drugs targeting GSR for the treatment
 CC of haemolytic anaemia. The present sequence represents an allele specific
 CC oligonucleotide (ASO) primer for the human GSR gene, which is given in
 CC the exemplification of the present invention. N.B. The polymorphic base
 CC (showing a single nucleotide polymorphism) in the ASO primer is shown
 CC using an IUPAC ambiguity code (as given in the present invention)
 XX
 SQ Sequence 15 BP; 1 A; 9 C; 4 G; 0 T; 0 U; 1 Other;


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Query Match      2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 321 GTGCTGGCGCGGAC 335
DB 15 GRGCTGGCGCGGGC 1

RESULT 967
ABK32383
ID ABK32383 standard; DNA; 15 BP.
XX AC ABK32383;
XX DT 23-APR-2002 (first entry)
XX DE Human colon cancer SAGE tag #484.
XX KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
XX KW serial analysis of gene expression; diagnostic; prognostic; probe;
XX KW cancer marker; ss.
XX OS Homo sapiens.
XX PN US6333152-B1.
XX PD 25-DEC-2001.
XX PF 20-MAY-1998; 98US-00081646.
XX PR 20-MAY-1998; 98US-00081646.
XX PA (UYJO ) UNIV JOHNS HOPKINS.
XX PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
XX DR WPI; 2002-153821/20.
XX CC The invention relates to an isolated, purified human nucleic acid (I)
XX CC that has the same sequence as a mRNA found in humans and is a SAGE
XX CC (serial analysis of gene expression) tag comprising a single stranded
XX CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
XX CC diagnostic and prognostic markers of cancer, especially of the colon and
XX CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
XX CC SAGE tags of the invention
XX SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match      2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301
DB 1 CATGTTGGTGAAGGA 15

RESULT 968
ABK32629
ID ABK32629 standard; DNA; 15 BP.
XX AC ABK32629;
XX DT 23-APR-2002 (first entry)
XX DE Human pancreatic cancer SAGE tag #181.
XX KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
XX KW serial analysis of gene expression; diagnostic; prognostic; probe;
XX KW cancer marker; ss.
XX OS Homo sapiens.
XX PN US6333152-B1.
XX PD 25-DEC-2001.
XX PF 20-MAY-1998; 98US-00081646.
XX PR 20-MAY-1998; 98US-00081646.
XX PA (UYJO ) UNIV JOHNS HOPKINS.
XX PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
XX DR WPI; 2002-153821/20.
XX CC The invention relates to an isolated, purified human nucleic acid (I)
XX CC that has the same sequence as a mRNA found in humans and is a SAGE
XX CC (serial analysis of gene expression) tag comprising a single stranded
XX CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
XX CC diagnostic and prognostic markers of cancer, especially of the colon and
XX CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
XX CC SAGE tags of the invention
XX SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match      2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301
DB 1 CATGTTGGTGAAGGA 15

RESULT 968
ABK32629
ID ABK32629 standard; DNA; 15 BP.
XX AC ABK32629;
XX DT 23-APR-2002 (first entry)
XX DE Human pancreatic cancer SAGE tag #181.
XX KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
XX KW serial analysis of gene expression; diagnostic; prognostic; probe;
XX KW cancer marker; ss.
XX OS Homo sapiens.
XX PN US6333152-B1.
XX PD 25-DEC-2001.
XX PF 20-MAY-1998; 98US-00081646.
XX PR 20-MAY-1998; 98US-00081646.
XX PA (UYJO ) UNIV JOHNS HOPKINS.
XX PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
XX DR WPI; 2002-153821/20.
XX CC The invention relates to an isolated, purified human nucleic acid (I)
XX CC that has the same sequence as a mRNA found in humans and is a SAGE
XX CC (serial analysis of gene expression) tag comprising a single stranded
XX CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
XX CC diagnostic and prognostic markers of cancer, especially of the colon and
XX CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
XX CC SAGE tags of the invention
XX SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match      2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301
DB 1 CATGTTGGTGAAGGA 15

RESULT 969
ABK81782/c
ID ABK81782 standard; DNA; 15 BP.
XX AC ABK81782;
XX DT 13-AUG-2002 (first entry)
XX DE Human CHRM5 gene polymorphism detection ASO primer #8.
XX KW Human; cholinergic receptor muscarinic 5; CHRM5; genotyping; haplotyping;
XX KW single nucleotide polymorphism; SNP; allele-specific oligonucleotide;
XX KW ASO; primer; ss.
XX OS Homo sapiens.
XX PN WO200232924-A2.
XX PD 25-APR-2002.
XX PF 11-OCT-2001; 2001WO-US032022.
XX PR 19-OCT-2000; 2000WO-US029071.
XX PA (GENA-) GENAISSANCE PHARM INC.
XX PI Bieglecki KM, Chew A, Choi JY, Denton RR, Nandabalan K;
XX PI Sausker EA, Stephens JC;
XX SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

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KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
KW KW serial analysis of gene expression; diagnostic; prognostic; probe;
KW KW cancer marker; ss.
XX OS Homo sapiens.
XX PN US6333152-B1.
XX PD 25-DEC-2001.
XX PF 20-MAY-1998; 98US-00081646.
XX PR 20-MAY-1998; 98US-00081646.
XX PA (UYJO ) UNIV JOHNS HOPKINS.
XX PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
XX DR WPI; 2002-153821/20.
XX CC The invention relates to an isolated, purified human nucleic acid (I)
XX CC that has the same sequence as a mRNA found in humans and is a SAGE
XX CC (serial analysis of gene expression) tag comprising a single stranded
XX CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
XX CC diagnostic and prognostic markers of cancer, especially of the colon and
XX CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
XX CC SAGE tags of the invention
XX SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match      2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301
DB 1 CATGTTGGTGAAGGA 15

RESULT 969
ABK81782/c
ID ABK81782 standard; DNA; 15 BP.
XX AC ABK81782;
XX DT 13-AUG-2002 (first entry)
XX DE Human CHRM5 gene polymorphism detection ASO primer #8.
XX KW Human; cholinergic receptor muscarinic 5; CHRM5; genotyping; haplotyping;
XX KW single nucleotide polymorphism; SNP; allele-specific oligonucleotide;
XX KW ASO; primer; ss.
XX OS Homo sapiens.
XX PN WO200232924-A2.
XX PD 25-APR-2002.
XX PF 11-OCT-2001; 2001WO-US032022.
XX PR 19-OCT-2000; 2000WO-US029071.
XX PA (GENA-) GENAISSANCE PHARM INC.
XX PI Bieglecki KM, Chew A, Choi JY, Denton RR, Nandabalan K;
XX PI Sausker EA, Stephens JC;
XX SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

```

DR WPI; 2002-435523/46.
 XX Novel cholinergic receptor, muscarinic 5 polynucleotide useful
 PT therapeutically and in screening for candidate drug to treat diseases
 PT related to the receptor activity.
 XX
 PS Claim 14; Page 13; 72pp; English.
 XX
 CC The present invention relates to a new cholinergic receptor, muscarinic 5
 CC (CHRM5) polynucleotide comprising a sequence which is a polymorphic
 CC variant for a reference sequence for the CHRM5 gene or its fragment, or a
 CC polymorphic variant of a reference sequence for a CHRM5 cDNA or its
 CC fragment. The invention is useful in drug screening assays. The molecules
 CC of the invention are useful in studying the expression and function of
 CC CHRM5, and in expressing CHRM5 protein for use in screening for candidate
 CC drugs to treat diseases related to CHRM5 activity. The methods of the
 CC invention are useful in developing diagnostic tests and therapeutic
 CC treatments. The method is also useful in the design of clinical trials of
 CC candidate drugs for treating specific condition or disease associated
 CC with CHRM5 activity and is useful in determining whether an individual
 CC has one of the haplotypes or one of the haplotype pairs. The invention is
 CC useful in a variety of diagnostic and prognostic formats and therapeutic
 CC methods. The invention is also useful in genotyping and/or haplotyping
 CC the CHRM5 gene in an individual. The present nucleic acid sequence
 CC represents one of a collection of allele-specific oligonucleotide (ASO)
 CC primers (ABK81775-ABK81794) that were used in the invention to detect
 CC polymorphisms in the human CHRM5 gene
 XX
 SQ Sequence 15 BP; 2 A; 6 C; 4 G; 2 T; 0 U; 1 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 230 CAATCGGAGGCTG 244
 Db 15 CYACTCGGAGGCTG 1
 RESULT 970
 ABZ76557
 ID ABZ76557 standard; DNA; 15 BP.
 XX
 AC ABZ76557;
 XX
 DT 29-APR-2003 (first entry)
 XX
 DE Lactobacillus brevis PCR primer ORF4 SEQ ID NO:60.
 XX
 DE Lactobacillus brevis; beer turbidity; beer clouding; beer; detection;
 KW lactic acid bacteria; brewing; probe; PCR primer; ss.
 XX
 OS Lactobacillus brevis.
 XX
 FN WO200295028-A1.
 XX
 PD 28-NOV-2002.
 XX
 PF 23-MAY-2002; 2002WO-JP005022.
 XX
 PR 23-MAY-2001; 2001JP-00154085.
 XX
 PA (KIRI) KIRIN BEER KK.
 XX
 PI Fujii T;
 XX
 DR WPI; 2003-120803/11.
 XX
 PT Polynucleotide probes and primers for detecting beer-clouding lactic acid
 PT bacteria, for quality control during beer production applicable in
 PT brewing industry.
 XX
 PS Claim 7; Page 31; 94pp; Japanese.

XX The present invention describes a polynucleotide probe, or primer, for
 CC detecting beer-clouding lactic acid bacteria containing a nucleotide
 CC sequence of (I) with 8056 base pairs (see ABZ76501), or a nucleotide made
 CC from not less than 15 nucleotides hybridizable with its complementary
 CC sequence. Probes and primers from the present invention can be used for
 CC detecting beer-clouding lactic acid bacteria (Lactobacillus brevis) for
 CC quality control during beer production, which is applicable in the
 CC brewing industry. The present sequence represents a PCR primer for
 CC Lactobacillus brevis which is used in the exemplification of the present
 CC invention
 XX
 SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 224 GCGGCGCAATCGG 238
 Db 1 GCGGCGCAATCGTG 15
 RESULT 971
 ABX76536/C
 ID ABX76536 standard; DNA; 15 BP.
 XX
 AC ABX76536;
 XX
 DT 01-APR-2003 (first entry)
 XX
 DE M. avium 23S rRNA probe #19.
 XX
 KW Probe; 23S rRNA; 16S rRNA; tuberculosis; MTC; MOTT; peptide nucleic acid;
 KW mycobacterium tuberculosis complex; precursor rRNA; rDNA; 5S rRNA; ss;
 XX mycobacterium other than tuberculosis.
 OS Mycobacterium avium.
 XX
 FN US2002137035-A1.
 XX
 PD 26-SEP-2002.
 XX
 PF 07-APR-2000; 2000US-00544934.
 XX
 PR 07-APR-2000; 2000US-00544934.
 XX
 PA (STEN/) STENDER H.
 PA (LUND/) LUND K.
 PA (MOLL/) MOLLERUP T A.
 XX
 PI Stender H, Lund K, Mollerup TA;
 XX
 DR WPI; 2003-174116/17.
 XX
 PT Peptide nucleic acid probes for detecting target sequences of
 PT Mycobacteria in samples, e.g., sputum, which are capable of hybridizing
 PT to a target sequence of mycobacterial rDNA, precursor rRNA or rRNA
 PT forming detectable hybrids.
 XX
 PS Claim 22; Page 39; 74pp; English.
 XX
 CC The invention relates to a peptide nucleic acid capable of hybridizing to
 CC a target sequence of Mycobacterial rDNA, precursor rRNA or rRNA (5S, 16S
 CC or 23S) forming detectable hybrids. Also included are detecting a target
 CC sequence of mycobacteria in a sample comprising contacting rRNA or rDNA
 CC in the sample with peptide nucleic acid probes (hybridisation takes place
 CC between the probe and the rRNA or rDNA), observing or measuring any
 CC formed detectable hybrids and relating the observation or measurement to
 CC the presence of a target sequence of mycobacteria in the sample, and a
 CC kit for detecting a target sequence of mycobacteria in particular a
 CC target sequence of mycobacteria of M. tuberculosis complex (MTC). The
 CC probes are used for detecting a target sequence of MTC (and

CC distinguishing them from mycobacterium other than tuberculosis, MOTT)
 CC present in a sample, e.g. sputum, laryngeal swabs, gastric lavage,
 CC bronchial washings, biopsies, aspirates, expectorates, body fluids,
 CC urine, tissue sections as well as food samples, soil, air and water
 CC samples and their cultures. The probe is able to penetrate the cell wall
 CC of the mycobacteria. It is able to hybridise to Mycobacterial precursor
 CC rRNA and rRNA without harsh treatment of the mycobacterial cells,
 CC therefore avoiding a risk of interfering with the morphology of the
 CC cells. The present sequence is an M. avium probe for 16S or 23S rRNA
 CC
 SQ Sequence 15 BP; 2 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 13 AACTCGCGGTGACCG 27
 DB 15 AGCTCCGGGTGACCG 1
 RESULT 972
 ADE36720
 ID ADE36720 standard; DNA; 15 BP.
 AC ADE36720;
 XX
 DT 29-JAN-2004 (first entry)
 DE DE3-1 plasmid construction related oligonucleotide SEQ ID NO:9.
 XX neoplasm; ErbB-3; immune response; cytostatic; gene therapy; cancer;
 KW human; ss.
 XX Synthetic.
 OS Homo sapiens.
 XX WO2003080835-A1.
 XX
 PD 02-OCT-2003.
 XX
 PF 26-MAR-2003; 2003WO-CN000217.
 XX
 PR 26-MAR-2002; 2002CN-00116259.
 XX
 PA (ZENS-) ZENSUN SHANGHAI SCI TECH LTD.
 XX
 PI Zhou M;
 XX
 DR WPI; 2003-876924/81.
 XX
 PT Use of an ErbB-3 protein, a nucleic acid encoding an ErbB-3 protein or
 PT their fragments, for treating, preventing or delaying neoplasms (e.g.
 PT urethra, uterus, vagina or vulva neoplasm) or cancers (e.g. breast, ovary
 PT or colon cancer).
 XX
 PS Example; SEQ ID NO 9; 68pp; English.
 XX
 CC The present invention describes a method for treating, preventing or
 CC delaying neoplasm in a mammal. The method comprises administering an ErbB
 CC -3 protein, a nucleic acid encoding an ErbB-3 protein, or their
 CC functional fragments, where an immune response is generated against the
 CC neoplasm. ErbB-3 has cytostatic activity, and can be used in gene
 CC therapy. The method is useful for treating, preventing or delaying
 CC neoplasms (e.g. adrenal gland, anus, auditory nerve, bile ducts, bladder,
 CC bone, brain, breast, buccal, central nervous system, cervix, colon, ear,
 CC endometrium, esophagus, eye, eyelids, fallopian tube, gastrointestinal
 CC tract, head and neck, heart, kidney, larynx, liver, lung, mandible,
 CC mandibular condyle, maxilla, mouth, nasopharynx, nose, oral cavity,
 CC ovary, pancreas, parotid gland, penis, pinna, pituitary, prostate gland,
 CC rectum, retina, salivary glands, skin, small intestine, spinal cord,
 CC stomach, testes, thyroid, tonsil, urethra, uterus, vagina,
 CC vestibulocochlear nerve, or vulva neoplasm), or cancers (breast, ovary,

CC stomach, prostate, colon and lung cancer). The present sequence
 CC represents an oligonucleotide used in the construction of a plasmid
 CC comprising ErbB-3, which is used in an example from the present
 CC invention.
 XX
 SQ Sequence 15 BP; 6 A; 4 C; 5 G; 0 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 384 GACGACGCGGCCAAG 398
 DB 1 GACGACGACGACCAAG 15
 RESULT 973
 AAQ65877
 ID AAQ65877 standard; DNA; 16 BP.
 XX
 AC AAQ65877;
 XX
 DT 25-MAR-2003 (revised)
 DT 22-DEC-1994 (first entry)
 XX
 DE Type II procollagen sequencing primer 77.
 XX
 KW Type II procollagen; COL2A1; amplification; primer;
 KW polymerase chain reaction; PCR; osteoarthritis; cartilage; ss.
 XX Synthetic.
 OS
 XX WO9411532-A1.
 XX
 PD 26-MAY-1994.
 XX
 PF 12-NOV-1993; 93WO-US010964.
 XX
 PR 13-NOV-1992; 92US-00977284.
 XX
 PA (UYJE-) UNIV JEFFERSON THOMAS.
 XX
 PI Prockop DJ, Ala-Kokko L, Williams CJ, Ritvaniemi P, Baldwin C;
 PI Hopkinson I, Ahmad NN;
 XX
 DR WPI; 1994-183530/22.
 XX
 PT Detecting genetic pre-disposition to osteoarthritis - and other diseases
 PT involving mutation in cartilage protein genes, by amplification and
 PT analysis of DNA and comparison with standards.
 XX
 PS Claim 18; Page 29; 112pp; English.
 XX
 CC Claim 18 claims primers for use in detecting mutations in a mammalian
 CC gene for a structural protein of cartilage comprising a sequence
 CC identified in Table I (Page 18-31). Table I includes 179 primer sequences
 CC (see AAQ65728-Q65906). The following details are given for primer 77:
 CC Region/exon: 45 Direction: sense Primer position: 18572 (Updated on 25-
 CC MAR-2003 to correct PN field.)
 XX
 SQ Sequence 16 BP; 4 A; 4 C; 4 G; 4 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 16;
 Best Local Similarity 86.7%; Pred. No. 4.4e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 61 AGTCTCTGCACTACG 75
 DB 2 AGTCTCTGCACTAAG 16
 RESULT 974
 AAT85365

ID AAT85365 standard; DNA; 16 BP.
 XX
 AC AAT85365;
 XX
 DT 10-DEC-1997 (first entry)
 XX
 DE Antisense p-ethoxy oligonucleotide against leukaemia cells.
 XX
 KW Human; acute lymphocytic leukaemia; ALL; Philadelphia chromosome;
 KW chronic myelogenous leukaemia; Abl; break point cluster region; Bcr;
 KW inhibition; tumour; ss.
 XX
 OS Synthetic.
 XX
 PH Key Location/Qualifiers
 FT misc_feature 1..16
 FT /tag= a
 FT /note= "p-ethoxy linkages"
 XX
 PN WO9707784-A2.
 XX
 PD 06-MAR-1997.
 XX
 PF 26-AUG-1996; 96WO-US014146.
 XX
 PR 29-AUG-1995; 95US-00520385.
 XX
 PA (TEXA) UNIV TEXAS SYSTEM.
 XX
 PI Lopez-Berestein G, Tari AM;
 XX
 DR WPI; 1997-178904/16.
 XX
 PT Anti-sense oligo:nucleotide liposomal compans. - comprise neutral
 PT phospholipid(s) with phosphodiester oligo:nucleotide(s),
 PT phosphorothioate oligo:nucleotide(s) or p-ethoxy oligo:nucleotide(s).
 XX
 PS Claim 7; Page 19; 26pp; English.
 XX
 CC A novel liposomal composition of antisense oligonucleotides has been
 CC developed. The composition comprises: (a) a liposome which consists
 CC entirely of neutral phospholipids; and (b) an antisense oligonucleotide
 CC that is entrapped in the liposome and is selected from phosphodiester
 CC oligonucleotides, phosphorothioate oligonucleotides, and p-ethoxy
 CC oligonucleotides. The present sequence represents a specifically claimed
 CC antisense p-ethoxy oligonucleotide against Bcr exon 1/abl exon 2 (B1/A2)
 CC found in human acute lymphocytic leukaemia cells. The compositions are
 CC used particularly for inhibiting the growth of tumour cells. The
 CC compositions minimise nuclease hydrolysis of the oligonucleotides and
 CC also result in increased cellular uptake and intracellular delivery of
 CC the antisense oligonucleotides. The compositions also enhance the
 CC incorporation of oligonucleotides in the liposomes compared to known
 CC liposomal formulations
 XX
 SQ Sequence 16 BP; 2 A; 4 C; 6 G; 4 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 16;
 Best Local Similarity 86.7%; Pred. No. 4.4e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 398 GAAGGCTTCTACGT 412
 DB 1 GAAGGCTTCTCGT 15
 RESULT 975
 AAV66874/c
 ID AAV66874 standard; RNA; 16 BP.
 XX
 AC AAV66874;
 XX
 DT 18-JAN-1999 (first entry)
 XX

DE Oligonucleotide for the last 16 nucleotides of K2.
 XX
 KW Human; tissue plasminogen activator; t-PA; chimeric gene assembly;
 KW manipulation; ribozyme; intron-mediated recombinant technique; cleavage;
 KW ligation; trans-splicing; PCR primer; ss.
 XX
 OS Synthetic.
 OS Homo sapiens.
 XX
 PN WO9840519-A1.
 XX
 PD 17-SEP-1998.
 XX
 PF 11-MAR-1998; 98WO-US004881.
 XX
 PR 11-MAR-1997; 97US-00814412.
 XX
 PA (UYBO-) UNIV BOSTON.
 XX
 PI Jarrell KA;
 XX
 DR WPI; 1998-531526/45.
 XX
 PT Manipulation of nucleic acids - using intron sequences to mediate
 PT specific cleavage and ligation of discontinuous nucleic acid molecules by
 PT trans-splicing.
 XX
 PS Example 1; Page 36; 160pp; English.
 XX
 CC A method has been developed for producing a recombinant DNA molecule. The
 CC method comprises: (a) providing a first DNA/RNA hybrid molecule
 CC comprising a first DNA linked to a first splicing component; (b)
 CC providing a second DNA/RNA hybrid molecule comprising a second DNA linked
 CC to a second splicing component, which second splicing component is
 CC selected so that, when the first and second DNA/RNA hybrid molecules are
 CC adjoined together, trans-splicing between the first and second splicing
 CC component covalently links the first DNA with the second DNA to form a
 CC single recombinant DNA molecule; and (c) admixing the first and second
 CC DNA/RNA hybrid molecules together so that the recombinant DNA molecule is
 CC produced by trans-splicing. The method can be used for the manipulation
 CC of nucleic acids. Novel genes and gene products can be generated by
 CC admixing nucleic acid constructs comprising exon nucleic acid sequences
 CC flanked by intron sequences that can direct trans-splicing of the exon
 CC sequences to each other. The flanking intronic sequences, by
 CC intermolecular complementation between the flanking intron sequences of
 CC two different constructs, form a functional intron which mediates the
 CC transesterification reactions necessary to cause the ligation of the
 CC discontinuous nucleic acid sequences to one another, and thereby generate
 CC a recombinant gene comprising the ligated exons. The present sequence
 CC represents an oligonucleotide used in an example from the present
 CC invention
 XX
 SQ Sequence 16 BP; 0 A; 8 C; 3 G; 0 T; 5 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 16;
 Best Local Similarity 86.7%; Pred. No. 4.4e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 272 GGAGCAGGCGGCAC 286
 DB 16 GGAGCAGGCGGCAC 2
 RESULT 976
 AAX09083
 ID AAX09083 standard; DNA; 16 BP.
 XX
 AC AAX09083;
 XX
 DT 14-JUN-1999 (first entry)
 XX
 DE Tumour necrosis factor alpha antisense oligonucleotide.
 XX

KW Tumour necrosis factor alpha; TNF-alpha; antisense oligonucleotide; ASO;
 KW inhibition; expression; treatment; disease; disorder; ss.

OS Synthetic.

PN WO9901139-A1.

XX 14-JAN-1999.

XX 02-JUL-1998; 98WO-US013711.

PR 03-JUL-1997; 97US-0051705P.

PA (UYJE-) UNIV JEFFERSON THOMAS.

PI Tu G, Israel Y;

XX WPI; 1999-105767/09.

XX Generation of antisense oligonucleotides - by specifically targeting a
 PT GGGA motif found in mRNA sequences.

XX Example 2; Page 37; 55pp; English.

CC Antisense oligonucleotides (ASO) for inhibiting a tumour necrosis factor-
 CC alpha (TNF-alpha) gene in an animal, preferably a human, comprise 12-50
 CC nucleotides, 30% of which are complementary to a region of mRNA
 CC containing a GGGA sequence motif. The ASO is used to inhibit expression
 CC of a gene in an animal and for treating the animal when afflicted with a
 CC disease or disorder characterised by the presence of an mRNA from a gene
 CC containing a GGGA motif. The ASO are specifically targeted to a GGGA
 CC sequence motif found in mRNA from a gene. A study of known ASO has shown
 CC that at least half of the most efficacious ASO's contain one or more TCCC
 CC motifs. This ASO comprises a TCCC motif followed by a cytosine residue
 CC and corresponds to a region of the 1.19CAT 5' untranslated region

SQ Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 16;

Best Local Similarity 86.7%; Pred. NO. 4.4e+02;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 305 GAGCCCGGGGACCG 319

DB 1 GATCCCGGGGACCG 15

RESULT 977

AAAL3286/c

ID AAAL3286 standard; RNA; 16 BP.

XX AC AAAL3286;

XX 24-JUL-2000 (first entry)

XX Kringle domain 2 (K2) nucleotide sequence.

XX Recombinant nucleic acid production; combinatorial gene library;
 KW ordered gene assembly; trans-splicing; tissue plasminogen activator;
 KW kringle domain; K2; ss.

OS Synthetic.

XX WO200017342-A2.

XX 30-MAR-2000.

XX 21-SEP-1999; 98WO-US012929.

XX 21-SEP-1998; 98US-0101328P.

PR 20-SEP-1999; 99US-00101328.

XX (UYBO-) UNIV BOSTON.

XX Jarrell KA, Mulcheeva S, Donahue W;

XX WPI; 2000-303208/26.

XX In vivo production of nucleic acid, useful e.g. for producing
 PT combinatorial gene libraries or ribozymes, by trans-splicing two RNAs
 PT containing exon and intron component.

XX Example 1; Page 40; 186pp; English.

XX This sequence represents a kringle domain (K2) nucleotide sequence. K2 is
 CC used in an example of the method of the invention, which demonstrates the
 CC use of engineered ribozymes to catalyse chimeric gene assembly. The
 CC present invention relates to the in vivo production of recombinant
 CC nucleic acid sequences. The method comprises expressing in a cell, two
 CC transcripts, one containing a first exon and first intron component, and
 CC a second transcript comprising a second intron component and a second
 CC exon. Transcript 1 and transcript 2 are allowed to trans-splice, forming
 CC a product containing exon 1 and exon 2, but not the intron components.
 CC The invention makes use of the ability of intronic sequences derived from
 CC discontinuous nucleic acid molecules. The method is used to produce
 CC recombinant nucleic acids, their products, or ribozymes in vivo. The
 CC method is preferably used for the preparation of combinatorial gene
 CC libraries in which the order and composition of exons are random. The
 CC method is also used for ordered gene assembly, or for the assembly of
 CC genes ordered at some exons but randomized at others. New genes can be
 CC selected rapidly and efficiently, and a very wide range of exons may be
 CC trapped.

SQ Sequence 16 BP; 0 A; 8 C; 3 G; 0 T; 5 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 16;

Best Local Similarity 86.7%; Pred. NO. 4.4e+02;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 272 GGAGCAGGGGGCAC 286

DB 16 GGAGCAGGGGGCAC 2

RESULT 978

AAAC63245/c

ID AAC63245 standard; DNA; 16 BP.

XX AC AAC63245;

XX 06-FEB-2001 (first entry)

XX Oligonucleotide #18 used in a method for primer selection.

XX PCR primer; nucleic acid amplification; melting temperature; T_m; ss.

XX Homo sapiens.

XX WO2000060123-A2.

XX 12-OCT-2000.

XX 05-APR-2000; 2000WO-US008962.

XX 06-APR-1999; 99US-0127891P.

XX (GENO-) GENOME TECHNOLOGIES LLC.

XX Senapathy P;

XX WPI; 2000-656235/63.

XX Determining T_m range for several degenerate primers with a fixed-sequence
 PT and a degenerate-sequence portion for use in polymerase chain reaction
 PT amplification by identifying a specific sequence in the nucleic acid

```

PT template.
PS Disclosure; Fig 3A; 34pp; English.
XX
CC The present invention relates to a method for selecting PCR primers for
CC nucleic acid amplification. The method comprises determining the melting
CC temperature (Tm) range for degenerate oligonucleotide primers with a
CC fixed-sequence portion (FS) and a degenerate-sequence portion (DS) by
CC searching known portion of a nucleic acid template for a sequence
CC complementary to a desired FS of a primer. Nucleotide base pairs flanking
CC or interspersed between the sequence complementary to a DS of one of the
CC primers are detected and Tm is calculated. The method of the present
CC invention allows primers which produce more efficient DNA amplification
CC to be produced. The present sequence is a primer used in the method of
CC the present invention
XX
SQ Sequence 16 BP; 1 A; 11 C; 4 G; 0 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 142 TGGCGGTGGAGGCGG 156
Db 15 TGGCGGTGGAGGCGG 1
RESULT 979
AAC63248/c
ID AAC63248 standard; DNA; 16 BP.
XX
AC AAC63248;
XX
DT 06-FEB-2001 (first entry)
XX
DE Oligonucleotide #21 used in a method for primer selection.
XX
KW PCR primer; nucleic acid amplification; melting temperature; Tm; ss.
XX
OS Homo sapiens.
XX
FN WO200060123-A2.
XX
PD 12-OCT-2000.
XX
PF 05-APR-2000; 2000WO-US008962.
XX
PR 06-APR-1999; 99US-0127891P.
XX
PA (GENO-) GENOME TECHNOLOGIES LLC.
XX
PI Senapathy P;
XX
KW WPI; 2000-656235/63.
XX
DR
PT Determining Tm range for several degenerate primers with a fixed-sequence
PT and a degenerate-sequence portion for use in polymerase chain reaction
PT amplification by identifying a specific sequence in the nucleic acid
PT template.
XX
PS Disclosure; Fig 3A; 34pp; English.
XX
CC The present invention relates to a method for selecting PCR primers for
CC nucleic acid amplification. The method comprises determining the melting
CC temperature (Tm) range for degenerate oligonucleotide primers with a
CC fixed-sequence portion (FS) and a degenerate-sequence portion (DS) by
CC searching known portion of a nucleic acid template for a sequence
CC complementary to a desired FS of a primer. Nucleotide base pairs flanking
CC or interspersed between the sequence complementary to a DS of one of the
CC primers are detected and Tm is calculated. The method of the present
CC invention allows primers which produce more efficient DNA amplification
CC to be produced. The present sequence is a primer used in the method of
CC the present invention

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XX
SQ Sequence 16 BP; 0 A; 10 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 305 GAGCCCGCGGACCG 319
Db 15 GAGCCCGCGGCGCG 1
RESULT 980
AAD22030
ID AAD22030 standard; DNA; 16 BP.
XX
AC AAD22030;
XX
DT 12-FEB-2002 (first entry)
XX
DE Human sitosterolaemia susceptibility gene (SSG) exon5 5' splice site.
XX
KW Human; sitosterolaemia susceptibility gene; SSG; atherosclerosis;
KW sterol-related disorder; hyperlipidaemia; hypercholesterolaemia; therapy;
KW gall stone; coronary heart disease; cardiovascular disease; arthritis;
KW xanthoma; haemolytic anaemia; transgenic animal; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT misc_feature 1..9
FT /tag= a
FT /note= "Intron"
FT misc_feature 10..16
FT /tag= b
FT /note= "Exon"
XX
PN WO200179272-A2.
XX
PD 25-OCT-2001.
XX
PF 18-APR-2001; 2001WO-US012758.
XX
PR 18-APR-2000; 2000US-0198465P.
XX
PR 15-MAY-2000; 2000US-0204234P.
XX
PA (TULA-) TULARIK INC.
XX
PI Tian H, Schultz J, Shan B;
XX
DR WPI; 2002-017598/02.
XX
PT Novel sitosterolemia susceptibility gene polypeptide and polynucleotide,
PT useful for screening a compound that increases the level of expression or
PT activity of SSG polypeptide for treating sterol-related disorder.
XX
PS Disclosure; Fig 14B; 105pp; English.
XX
CC The invention relates to an isolated sitosterolaemia Susceptibility Gene
CC (SSG) polypeptide. SSG is a member of adenosine triphosphate (ATP)
CC binding cassette (ABC) family cholesterol transporter. SSG is useful for
CC identifying a compound useful in the treatment or prevention of a sterol-
CC related disorder, including sitosterolaemia, hyperlipidaemia,
CC hypercholesterolaemia, gall stones, HDL deficiency, atherosclerosis or
CC nutritional deficiencies. SSG is also useful for treating cholesterol-
CC associated diseases or conditions including coronary heart disease and
CC other cardiovascular diseases, and sitosterolaemia-associated condition
CC including arthritis, xanthomas and chronic haemolytic anaemia. SSG
CC expression cassette is useful in the production of transgenic non-human
CC animals. SSG genes and their homologues are useful as tools for a number
CC of applications including diagnosing sitosterolaemia and other
CC cardiovascular disorders, for forensics and paternity determinations, and
CC for treating any of a large number of SSG associated diseases. The

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CC present sequence is human SSG exon splice site
XX Sequence 16 BP; 2 A; 3 C; 8 G; 3 T; 0 U; 0 Other;
SQ

Query Match      2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      142 TGGCGGTGGAGCGC 156
Db      1 TGCAGGTGGAGCGC 15

RESULT 981
ABL31248
ID ABL31248 standard; DNA; 16 BP.
XX
XX ABL31248;
AC
XX
XX
XX 21-MAR-2002 (first entry)
XX
XX Human HLA genotyping oligonucleotide SEQ ID NO 737.
XX
XX Human; human leukocyte antigen; HLA; genotype; polymorphism;
XX immunogenetic; transplantation; genetic disease; ss.
XX
XX Homo sapiens.
XX
XX WO200192572-A1.
XX
XX 06-DEC-2001.
XX
XX 01-JUN-2001; 2001WO-JP004662.
XX
XX 01-JUN-2000; 2000JP-00164798.
XX
XX (NIST) NISSHINO IND INC.
XX (SYST-) SYSTEM RES INC.
XX
XX Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
XX WPI; 2002-122074/16.
XX
XX Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of
XX individuals e.g. by determining immunogenetic differences when
XX transplanting between them.
XX
XX Claim 10; Page 233; 345pp; Japanese.
XX
XX The invention relates to a typing kit for judging human leukocyte antigen
XX (HLA) genotype of a sample by hybridising a substrate on which 10-24 base
XX oligonucleotides (ABL30512-ABU31809) originating in the sequences of
XX genes e.g. belonging to HLA class I antigens on human genome and
XX containing gene polymorphisms as alloantigens have been immobilised as
XX primers for amplification of cleaved nucleic acids relating to gene
XX polymorphisms. The method is useful for judging HLA genotypes of
XX individuals by determining immunogenetic differences before transplanting
XX between them, providing genetic information to decide compatibility of
XX organ and tissue for transplantation e.g. of bone marrow, kidney, liver,
XX pancreas, Langerhans islet in pancreas and cornea, susceptibility
XX diagnosis of genetic diseases and identifying individuals
XX
XX Sequence 16 BP; 2 A; 4 C; 9 G; 1 T; 0 U; 0 Other;
SQ

Query Match      2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      269 CCTGGAGCAGGCGG 283
Db      1 CCTGGAGCAGGCGG 15

CC present sequence is human SSG exon splice site
XX Sequence 16 BP; 2 A; 3 C; 8 G; 3 T; 0 U; 0 Other;
SQ

Query Match      2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      353 CTACAGCGACTTCCT 367
Db      16 CTCACGCGACTTCCT 2

RESULT 982
ABN79955/c
ID ABN79955 standard; DNA; 16 BP.
XX
XX ABN79955;
AC
XX
XX 15-JUL-2002 (first entry)
XX
XX Human CYP2D6 gene sequencing primer A182FS.
XX
XX Human; single nucleotide polymorphism; nucleic acid typing;
XX tissue typing; sequencing; primer; ss.
XX
XX Homo sapiens.
XX
XX WO200220837-A2.
XX
XX 14-MAR-2002.
XX
XX 10-SEP-2001; 2001WO-GB004042.
XX
XX 08-SEP-2000; 2000GB-00022069.
XX
XX (PYRO-) PYROSEQUENCING AB.
XX (STRD) UNIV LELAND STANFORD JUNIOR.
XX (GARD/) GARDNER R.
XX
XX Ronaghi M, Ekstroem B, Fourmand N;
XX WPI; 2002-393849/42.
XX
XX Typing nucleic acid for obtaining information about several variable
XX sites involves simultaneously or sequentially performing two or more
XX primer extension reactions, and determining the pattern of nucleotide
XX incorporation.
XX
XX Example 5; Page 59; 86pp; English.
XX
XX The invention relates to a novel method for obtaining typing information
XX about several variable sites within target nucleic acid, or typing one or
XX more nucleic acid molecules. The methods of the invention are useful for
XX typing one or more nucleic acid molecules containing three or more variable
XX sites, preferably nucleic acid molecules containing three or more
XX variable sites are typed, where three or more primer extension reactions
XX are performed. The method is also useful for diagnosis of pathological
XX conditions characterized by the presence of specific nucleic acid
XX molecule(s). The methods are particularly suited for identifying
XX microbial species or their subtypes, and in typing procedures e.g. typing
XX of polymorphisms, tissue typing or in clinical applications. The sequence
XX represents a PCR primer used to sequence fragment 6118 of the CYP2D6
XX gene, which is a member of the cytochrome P450 gene superfamily
XX
XX Sequence 16 BP; 5 A; 3 C; 6 G; 2 T; 0 U; 0 Other;
SQ

Query Match      2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      353 CTACAGCGACTTCCT 367
Db      16 CTCACGCGACTTCCT 2

RESULT 983
ABX04806/c
ID ABX04806 standard; DNA; 16 BP.
XX
XX ABX04806;
AC
XX
XX 15-JAN-2003 (first entry)
XX
XX Guanylate kinase gene associated oligonucleotide #22.
XX

```


KW Herpesviridae; thymidine kinase; TK; DRH nucleoside binding region;
 KW viral inhibitor; bacterial inhibitor; parasite inhibitor; tumour;
 KW autoreactive immune cell; cancer; hyperkeratosis; psoriasis;
 KW prostate hypertrophy; hyperthyroidism; endocrinopathy; allergy;
 KW autoimmune disease; restenosis; viral disease; AIDS; hepatitis; HCV; HBV;
 KW acquired immunodeficiency syndrome; intracellular parasitic disease;
 KW gene therapy; adenosine deaminase deficiency; Alzheimer's disease; ss;
 KW guanylate kinase.
 XX Mus sp.
 XX US6451571-B1.
 XX 17-SEP-2002.
 XX 17-MAR-1999; 99US-00270956.
 XX 02-MAY-1994; 94US-00237592.
 XX 02-MAY-1995; 95US-00432871.
 XX 02-NOV-1995; 95US-00552304.
 XX (UNIW) UNIV WASHINGTON.
 XX Loeb LA, Black ME;
 XX WPI; 2003-045581/04.
 XX Novel Herpesviridae thymidine kinase mutant useful for inhibiting
 PT pathogens e.g. viruses, bacteria, tumor in animals, has one or more
 PT mutations encoding amino acid substitutions upstream from the DRH
 PT nucleoside binding site.
 XX Example 9; Col 48; 78pp; English.
 XX The invention describes an isolated Herpesviridae thymidine kinase (TK)
 CC comprising a 12 amino acid (aa) nucleoside binding region having a site 3
 CC made up of a DRH nucleoside binding site and a site 4 and mutation(s), at
 CC least one of the mutations being an aa substitution 2 or 3 aa upstream or
 CC 5 or more aa downstream from the DRH motif that increases a biological
 CC activity, preferably ability of TK to phosphorylate a nucleoside
 CC analogue, as compared to unmutated TK. TK mutants are useful for
 CC inhibiting a pathogenic agent such as viruses, bacteria, parasites,
 CC tumour cells or autoreactive immune cells in a warm-blooded animal. TK
 CC mutant is useful for inhibiting a tumour or cancer in a warm-blooded
 CC animal, for treating a variety of disease e.g., hyperkeratosis
 CC (psoriasis), prostate hypertrophy, hyperthyroidism, endocrinopathies,
 CC autoimmune diseases, allergies, restenosis, viral diseases such as
 CC acquired immunodeficiency syndrome (AIDS) hepatitis (HCV or HBV),
 CC intracellular parasitic diseases, and to correct aberrant expression of a
 CC gene within a cell, or to replace a specific gene which is defective in
 CC proper expression using gene therapy, e.g. including adenosine deaminase
 CC deficiency, and Alzheimer's diseases. The mutants are utilised as a
 CC conditionally lethal marker for homologous recombination. This sequence
 CC represents an oligonucleotide used in the isolation, purification and
 CC characterisation of guanylate kinase
 XX Sequence 16 BP; 2 A; 10 C; 2 G; 2 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 16;
 Best Local Similarity 86.7%; Pred. No. 4.4e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 139 GCTTGGCGGTGGAGG 153
 Db 16 GCTTGGAGGTGGGGG 2
 RESULT 984
 ACD82537/c
 ID ACD82537 standard; DNA; 16 BP.
 XX AC ACD82537;
 XX OS

DT 19-SEP-2003 (first entry)
 XX Nucleic acid cloning associated adaptor molecule #238.
 XX Adaptor molecule; nucleic acid cloning; nucleic acid ligating;
 KW internal deletion mutagenesis analysis; cloning vehicle; ss.
 XX Synthetic.
 XX US2003044791-A1.
 XX 06-MAR-2003.
 XX 13-JUN-2001; 2001US-00880313.
 XX 13-JUN-2001; 2001US-00880313.
 XX (FLEM/) FLEMINGTON E K.
 XX Flemington EK;
 XX WPI; 2003-521745/49.
 XX New adaptor molecules, useful for cloning nucleic acid molecules that
 PT does not require the design and synthesis of oligonucleotides or PCR
 PT primers.
 XX Claim 12; Fig 5; 100pp; English.
 XX The invention describes adaptor molecules, where each end of the adaptor
 CC is compatible with a nucleic acid digested with a restriction enzyme or a
 CC nucleic acid comprising an end that is compatible with a nucleic acid
 CC digested with a restriction enzyme. The adaptor molecules, compositions,
 CC kits and arrays are useful for cloning nucleic acid molecules that does
 CC not require the design and synthesis of oligonucleotides or PCR primers.
 CC The adaptors, kits and arrays are also useful for ligating two ends of a
 CC single nucleic acid molecule, or ligating two or more nucleic acid
 CC molecules. The kits can also be used for performing internal deletion
 CC mutagenesis analysis. The adaptor molecules are ligated to a cloning
 CC vehicle, making the cloning procedure more rapid and efficient, and less
 CC error-prone. This sequence represents a nucleic acid cloning associated
 CC adaptor molecule
 XX Sequence 16 BP; 2 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 16;
 Best Local Similarity 86.7%; Pred. No. 4.4e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 278 GCGCGGCGCCCAAGCT 292
 Db 15 GCGGTGCAGCAAGCT 1
 RESULT 985
 AAQ47568
 ID AAQ47568 standard; cDNA to mRNA; 17 BP.
 XX AAQ47568;
 XX 25-MAR-2003 (revised)
 DT 26-JAN-1994 (first entry)
 XX Specific B type jun gene probe.
 XX quantification; human; GTP binding protein; G protein; alpha subunit;
 KW specific mRNA; detection; hybridisation; diagnosis; pathophysiology;
 KW disease state; hereditary; cancer; infectious; osteodystrophy;
 KW pituitary tumour; acromegaly; melanoma cells; diabetes; PCR;
 KW polymerase chain reaction; ss.
 XX Synthetic.
 XX OS

PN WO9315221-A1.
XX
PD 05-AUG-1993.
XX
PF 29-JAN-1993; 93WO-US000977.
XX
PR 29-JAN-1992; 92US-00827208.
XX
PR 24-MAR-1992; 92US-00857059.
XX
PR 12-NOV-1992; 92US-00974409.
XX
XX (HITB) HITACHI CHEM CO LTD.
PA (HITB) HITACHI CHEM RES CENT INC.
XX
PI Akitaya T, Cooper A, Mitsuhashi M;
XX
DR WPI; 1993-258695/32.
XX
XX Quantitating messenger RNA in sample - using immobilised-polynucleotide
PT having sequence complementary to sequence unique to the mRNA.
XX
PS Example 9; Page 67; 177pp; English.
XX
CC The sequence is that of a specific B type jun gene probe which was used
CC in the method of the invention for the detection and quantification of
CC mRNAs in a sample without the need to purify the mRNA from cells. The
CC claimed method comprises identifying a polynucleotide sequence unique to
CC the mRNA, and immobilising an oligomer complementary to this sequence to
CC an insoluble support. The sample is then incubated with the insoluble
CC support such that the unique sequence will hybridise to the bound
CC oligomer and be immobilised. Non-immobilised components are washed from
CC the support and bound RNA is labelled in such a way that the label is
CC incorporated onto the support relative to the amount of mRNA on the
CC support. The amount of bound label is then determined. This method can be
CC used for the reliable, rapid, simultaneous quantification of multiple
CC varieties of mRNA. It may be used for diagnosing and recognition of
CC pathophysiology of various disease states, eg. hereditary diseases,
CC cancer, and infectious diseases. G proteins are thought to be involved in
CC causing various disease states. A genetic deficiency of Gs protein is the
CC molecular basis of hereditary osteodystrophy. Pituitary tumours in
CC acromegalic patients have been shown to contain mutant Gs proteins. G
CC proteins are also involved in invasive and metastatic melanoma cells, and
CC diabetes. See also AAQ47381-666. (Updated on 25-MAR-2003 to correct PN
CC field.)
XX
SQ Sequence 17 BP; 2 A; 6 C; 6 G; 3 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 0; Gaps 0;
Matches 13; Conservative 0; Indels 2; Indels 0; Gaps 0;
QY 217 ACTCGGTGGCGGCCA 231
DB 2 ACTTGGTGGCGGCCA 16
RESULT 986
AAQ47593/C
ID AAQ47593 standard; cDNA to mRNA; 17 BP.
XX
XX AAQ47593;
AC
DT 25-MAR-2003 (revised)
DT 26-JAN-1994 (first entry)
XX
XX Jun-B specific probe B-1258.
XX
XX quantification; human; GTP binding protein; G protein; alpha subunit;
KW specific mRNA; detection; hybridisation; diagnosis; pathophysiology;
KW disease state; hereditary; cancer; infectious; osteodystrophy;
KW pituitary tumour; acromegaly; melanoma cells; diabetes; PCR;
KW polymerase chain reaction; ss.
XX
XX Synthetic.
OS

XX WO9315221-A1.
XX
PD 05-AUG-1993.
XX
PF 29-JAN-1993; 93WO-US000977.
XX
PR 29-JAN-1992; 92US-00827208.
XX
PR 24-MAR-1992; 92US-00857059.
XX
PR 12-NOV-1992; 92US-00974409.
XX
XX (HITB) HITACHI CHEM CO LTD.
PA (HITB) HITACHI CHEM RES CENT INC.
XX
PI Akitaya T, Cooper A, Mitsuhashi M;
XX
DR WPI; 1993-258695/32.
XX
XX Quantitating messenger RNA in sample - using immobilised-polynucleotide
PT having sequence complementary to sequence unique to the mRNA.
XX
PS Example 9; Page 71; 177pp; English.
XX
CC The sequence is that of the jun-B specific probe B-1258 which may be used
CC in the detection of jun oncogenes. It was used in the method of the
CC invention for the detection and quantification of mRNAs in a sample
CC without the need to purify the mRNA from cells. The claimed method
CC comprises identifying a polynucleotide sequence unique to the mRNA, and
CC immobilising an oligomer complementary to this sequence to an insoluble
CC support. The sample is then incubated with the insoluble support such
CC that the unique sequence will hybridise to the bound oligomer and be
CC immobilised. Non-immobilised components are washed from the support and
CC bound RNA is labelled in such a way that the label is incorporated onto
CC the support relative to the amount of mRNA on the support. The amount of
CC bound label is then determined. This method can be used for the reliable,
CC rapid, simultaneous quantification of multiple varieties of mRNA. It may
CC be used for diagnosing and recognition of pathophysiology of various
CC disease states, eg. hereditary diseases, cancer, and infectious diseases.
CC G proteins are thought to be involved in causing various disease states.
CC A genetic deficiency of Gs protein is the molecular basis of hereditary
CC osteodystrophy. Pituitary tumours in acromegalic patients have been shown
CC to contain mutant Gs proteins. G proteins are also involved in invasive
CC and metastatic melanoma cells, and diabetes. See also AAQ47381-666.
CC (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ Sequence 17 BP; 3 A; 6 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 2; Indels 0; Gaps 0;
Matches 13; Conservative 0; Indels 2; Indels 0; Gaps 0;
QY 217 ACTCGGTGGCGGCCA 231
DB 16 ACTTGGTGGCGGCCA 2
RESULT 987
AAQ56954
ID AAQ56954 standard; DNA; 17 BP.
XX
XX AAQ56954;
AC
DT 14-MAY-2003 (revised)
DT 25-MAR-2003 (revised)
DT 01-SEP-1994 (first entry)
XX
XX pH 2.5 acid phosphatase probe oligo PHY-34 #3.
XX
XX Phytase; pH 2.5 acid phosphatase; A. niger; strain ALK0243; mineral;
KW liberation; phytate; plant material; feed treatment; animal; inositol;
KW enzyme mixture; hydrolysis; phosphate; phytic acid complex; ss.
XX
XX Synthetic.
OS

```

XX W09403072-A1.
XX
XX 17-FEB-1994.
XX
XX 27-JUL-1993; 93WO-US007058.
XX
XX 31-JUL-1992; 92US-00925401.
XX
XX (PANL-) PANLABS INC.
XX (NEVA/) NEVALAINEN H K M.
XX (ALKO-) ALKO LTD.
XX
XX Paloheimo MT, Fagerstroem RB, Miettinen-Oinonen ASK, Turunen MK;
XX Ramboeck JA, Piddington CS, Houston CS, Cantrell MA;
XX WPI; 1994-065302/08.
XX
XX Nucleic acid encoding phytase and pH 2.5 acid phosphatase - Used to
XX produce the enzymes and enzyme mixts. for liberating minerals from
XX phytate, partic. for animal feed.
XX
XX Example 1; Page 31; 103pp; English.
XX
XX The sequences given in AAQ56948-59 are probes which were used in the
XX isolation of the pH 2.5 acid phosphatase (AP) from A. niger var. awamori
XX strain ALK0243. These probes are based on peptide #816 and #1110 (see
XX also AAQ4233). The isolated sequences were used to transform host
XX cells for the expression of the pH 2.5 AP protein. The pH 2.5 AP protein
XX can be used to liberate minerals from phytates in plant materials either
XX in vitro, ie, in feed treatment processes, or in vivo, ie, by
XX administering the enzymes to animals. This enzyme can be mixed to provide
XX a balanced enzyme mixture in which cooperative enzyme activity rapidly
XX and effectively catalyzes the near complete hydrolysis of phytate to
XX inositol and free phosphate with release of minerals from the phytic
XX acid complex. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
XX 14-MAR-2003 to correct PS field.)
XX
XX Sequence 17 BP; 5 A; 6 C; 0 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. NO. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 359 CGACTTCTCTCACTTT 373
XX 1 CCACCTCTCTCAATTT 15
XX
XX RESULT 988
XX AAQ89601
XX ID AAQ89601 standard; DNA; 17 BP.
XX
XX AC AAQ89601;
XX
XX 06-NOV-1995 (first entry)
XX
XX Kappa-casein DNA primer AA75-80B.
XX
XX Kappa-casein; milk protein; primer; polymerase chain reaction; PCR; ss.
XX Synthetic.
XX US5391497-A.
XX
XX 21-FEB-1995.
XX
XX 13-OCT-1992; 92US-00962569.
XX
XX 13-OCT-1992; 92US-00962569.
XX
XX (COLS ) UNIV COLORADO FOUND INC.
XX

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```

PI Ham RG, Jeffers KF, Menon RS, Chang Y;
XX
XX WPI; 1995-160470/21.
XX
XX P-PSDB; AAR72699.
XX
XX DNA encoding human kappa-casein - used for the prodn. of large amts. of
XX highly purified kappa-casein milk protein for infant use.
XX
XX Example D; Col 11; 14pp; English.
XX
XX A commercial cDNA library prepd. in lambda gtl1 from mRNA obtd. from
XX human breast tissue removed during the third trimester of pregnancy was
XX screened with rabbit anti-bovine kappa-casein cDNA. The cDNA insert of a
XX recombinant phage was amplified by PCR using the lambda sequencing
XX primers given in AAQ89599-600 and the kappa-casein primer given in
XX AAQ89601 to obtain a clone encoding human kappa-casein
XX
XX Sequence 17 BP; 4 A; 3 C; 7 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. NO. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 179 GTCCAGGCGACATAT 193
XX 1 GTGCGAGGCGACATAT 15
XX
XX RESULT 989
XX AAT53541
XX ID AAT53541 standard; RNA; 17 BP.
XX
XX AC AAT53541;
XX
XX 25-MAR-2003 (revised)
XX 27-MAR-1997 (first entry)
XX
XX Rat ICAM hammerhead ribozyme target sequence (nt. position 1092).
XX
XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
XX gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
XX intercellular adhesion molecule; rel A; tumour necrosis factor;
XX TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
XX translocation; chronic myelogenous leukaemia; CML; cancer;
XX Philadelphia chromosome; inflammation; autoimmune disease;
XX atherosclerosis; myocardial infarction; stroke; restenosis;
XX transplant rejection; rheumatoid arthritis; psoriasis;
XX myocardial ischaemia; Kawasaki disease; septic shock; HIV;
XX human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
XX ss.
XX
XX Rattus rattus.
XX
XX W09523225-A2.
XX
XX 31-AUG-1995.
XX
XX 23-FEB-1995; 95WO-IB000156.
XX
XX 23-FEB-1994; 94US-00201109.
XX 29-MAR-1994; 94US-00218934.
XX 04-APR-1994; 94US-00222795.
XX 07-APR-1994; 94US-00224483.
XX 15-APR-1994; 94US-00227958.
XX 15-APR-1994; 94US-00228041.
XX 18-MAY-1994; 94US-00245736.
XX 06-JUL-1994; 94US-00271280.
XX 15-AUG-1994; 94US-00291932.
XX 16-AUG-1994; 94US-00291433.
XX 17-AUG-1994; 94US-00292620.
XX 19-AUG-1994; 94US-00293520.
XX 02-SEP-1994; 94US-00300000.
XX 08-SEP-1994; 94US-00303039.
XX

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RESULT 991
AAT06812/c
ID AAT06812 standard; DNA; 17 BP.
XX
AC AAT06812;
XX
DT 02-JUL-1996 (first entry)
XX
DE Probe A' (Set 9) for M. tuberculosis 16S rRNA gene nucleotides 721-760.
XX
KW probe; modified ligase chain reaction; Mycobacterium tuberculosis;
XX M. avium; M. intracellulare; M. kansasii; detection; diagnosis; ss.
XX
OS Mycobacterium tuberculosis.
XX
PN WO9531571-A2.
XX
PD 23-NOV-1995.
XX
PF 04-MAY-1995; 95WO-US005816.
XX
PR 13-MAY-1994; 94US-00223330.
XX
PA (ABBO ) ABBOTT LAB.
XX
PI Kratochvil JD, Leckie GW, Odonnell DL, Solomon NA;
XX
DR WPI; 1996-010956/01.
XX
PT New probes for detection of Mycobacterium species - derived from the 16S
PT ribosomal RNA gene, the protein antigen b gene and the 65 kD and 10 kD
PT heat shock protein genes of M.tuberculosis.
XX
PS Claim 2; Page 41; 60pp; English.
XX
CC Probe set 9 (AAT06811-814) were selected to detect a target sequence in
CC the 16S ribosomal RNA gene (nucleotides 721-760) of M. tuberculosis. The
CC probes were labelled with biotin and fluorescein. Set 9 as capable of
CC detecting target DNA from several species of bacteria of the genus
CC Mycobacterium. A modified ligase chain reaction was utilised which uses
CC two pairs of probes designated A, B (primary probes) and A', B'
CC (secondary probes). Probe pairs were directed to the same target strand
CC and ultimately ligated to one another after annealing to the target
CC strand. At least one of the probes of a pair had a modified end with
CC respect to the point of ligation. The modified end had bases omitted to
CC create a gap between one probe terminus and the next probe terminus when
CC the pair was annealed to the target sequence. Other modified ends include
CC a base mismatched with the target sequence. The presence of modified ends
CC reduced the falsely positive signal created by blunt-end ligation of the
CC complementary probe duplexes to one another in the absence of target.
CC "Correction" of the modification, in a target dependent manner, was
CC subsequently carried out to render the probes ligatable. Once ligated,
CC the fused (reorganised) probe was dissociated (e.g. melted) from the
CC target and, as with conventional LCR, the process was repeated for
CC several cycles
XX
SQ Sequence 17 BP; 2 A; 9 C; 4 G; 2 T; 0 U; 0 Other;
XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 330 GCGGACGACCGGC 344
DB 15 GCGGCGGATCAGGC 1
XX
RESULT 992
AAT35286/c
ID AAT35286 standard; DNA; 17 BP.
XX
AC AAT35286;
XX

```

```

XX 09-DEC-1996 (first entry)
XX Chemokine receptor K5.5 primer K5-5D (sense).
XX
XX Chemokine receptor K5.5; MIP-1-alpha; RANTES; MCP-1; allergy; atheroma;
XX HIV; AIDS; graft rejection; stem cell; primer; ss.
XX
XX Synthetic.
XX
XX WO9623068-A1.
XX
XX 01-AUG-1996.
XX
XX 24-JAN-1996; 96WO-GB000143.
XX
XX 27-JAN-1995; 95GB-00001683.
XX
XX (GLAX ) GLAXO GROUP LTD.
XX
XX Wells TNC, Power CA;
XX
XX WPI; 1996-362692/36.
XX
XX Chemokine receptor which binds MIP-1-alpha, RANTES and/or MCP-1 - useful
XX in screening for agents to treat asthma, hay fever, eczema, allergies,
XX atopic dermatitis, rhinitis or conjunctivitis.
XX
XX Example; Fig 2; 47pp; English.
XX
XX A set of internal sequencing primers (AAT35281-91) were used to sequence
XX CDNA clone EI-C19 (see also AAT35277), which codes for chemokine receptor
XX K5.5 (AAR99274). They were designed on the basis of previous sequencing
XX results
XX
XX Sequence 17 BP; 3 A; 5 C; 5 G; 4 T; 0 U; 0 Other;
XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 294 GTGAAGGACCTGAGC 308
DB 15 GTCATGGACCTGAGC 1
XX
RESULT 993
AAT06537/c
ID AAT06537 standard; DNA; 17 BP.
XX
XX AAT06537;
XX
XX AC AAT06537;
XX
XX 25-MAR-2003 (revised)
XX
XX 02-JUL-1996 (first entry)
XX
XX Probe A' (Set 9) for M. tuberculosis 16S rRNA gene nucleotides 721-760.
XX
XX probe; modified ligase chain reaction; Mycobacterium tuberculosis;
XX M. avium; M. intracellulare; M. kansasii; detection; diagnosis; ss.
XX
XX Mycobacterium tuberculosis.
XX
XX WO9531570-A1.
XX
XX 23-NOV-1995.
XX
XX 04-MAY-1995; 95WO-US005602.
XX
XX 13-MAY-1994; 94US-00242403.
XX
XX (ABBO ) ABBOTT LAB.
XX
XX Leckie GW, Davis AH, Semplefacey IE, Manlove MT, Solomon NA;
XX

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XX WPI; 1996-010955/01.
 XX
 XX New probes for detection of M.tuberculosis - derived from e.g. the gene
 PT coding for protein antigen b and from the insertion-like element IS6110
 PT of M.tuberculosis.
 XX
 XX Example 8; Page 41; 60pp; English.
 XX
 XX Probe set 9 (AAT06536-539) were selected to detect a target sequence in
 CC the 16S ribosomal RNA gene (nucleotides 721-760) of M. tuberculosis. The
 CC probes were labelled with biotin and fluorescein. Set 9 as capable of
 CC detecting target DNA from several species of bacteria of the genus
 CC Mycobacterium. A modified ligase chain reaction was utilised which uses
 CC two pairs of probes designated A, B (primary probes) and A', B'.
 CC (secondary probes). Probe pairs were directed to the same target strand
 CC and ultimately ligated to one another after annealing to the target
 CC strand. At least one of the probes of a pair had a modified end with
 CC respect to the point of ligation. The modified end had bases omitted to
 CC create a gap between one probe terminus and the next probe terminus when
 CC the pair was annealed to the target sequence. Other modified ends include
 CC a base mismatched with the target sequence. The presence of modified ends
 CC reduced the falsely positive signal created by blunt-end ligation of the
 CC complementary probe duplexes to one another in the absence of target.
 CC "Correction" of the modification, in a target dependent manner, was
 CC subsequently carried out to render the probes ligatable. Once ligated,
 CC the fused (reorganised) probe was dissociated (e.g. melted) from the
 CC target and, as with conventional LCR, the process was repeated for
 CC several cycles. (Updated on 25-MAR-2003 to correct PI field.)
 XX
 XX Sequence 17 BP; 2 A; 9 C; 4 G; 2 T; 0 U; 0 Other;
 SQ
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 330 GCGGACGACCGACGGC 344
 |||||
 DB 15 GCGGCGATCAGGCG 1
 RESULT 994
 AAT62817
 ID AAT62817 standard; DNA; 17 BP.
 AC
 AC AAT62817;
 XX
 DT 18-NOV-1997 (first entry)
 XX
 DE Primer MGHRI for murine growth hormone cDNA.
 XX
 XX Primer; polymerase chain reaction; PCR; amplification; murine; mouse;
 KW growth hormone; transformation; stem cell; mammal; transformed organism;
 KW increased growth; continuous expression; improvement; body weight;
 KW milk production; ss.
 OS Synthetic.
 XX
 XX WO9708947-A1.
 PN
 XX
 PD 13-MAR-1997.
 XX
 PF 28-AUG-1996; 96WO-JP002402.
 XX
 XX 08-SEP-1995; 95JP-00231086.
 PR
 XX (TAKI) TAKARA SHUZO CO LTD.
 PA
 PA Okado T, Zhang Y, Matsushita H, Asada K, Kato I;
 PI
 PI WPI; 1997-192587/17.
 DR
 XX
 XX Organisms transformed by growth hormone gene - for producing higher body

PT weight, faster growing specimens.
 XX
 PS Example 1; Page 22; 39pp; Japanese.
 XX
 CC The present sequence is a primer for the PCR amplification of murine
 CC growth hormone (mGH) cDNA, which was used to transform a stem cell, which
 CC in turn was introduced into an organism to produce a transformed
 CC organism. The transformed organism exhibits increased growth, and as the
 CC growth hormone gene is expressed continuously, it can be grown very
 CC quickly. The resulting organism, specifically a mammal, shows improved
 CC body weight and milk production
 XX
 SQ Sequence 17 BP; 4 A; 3 C; 10 G; 0 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 272 GGAGCAGCGCGGCAC 286
 |||||
 DB 1 GGGGACGAGGAGGCAC 15
 RESULT 995
 AAX68713/c
 ID AAX68713 standard; RNA; 17 BP.
 XX
 XX AAX68713;
 AC
 XX 28-JUL-1999 (first entry)
 DT
 XX Human flt1 VEGF receptor hammerhead ribozyme substrate #8.
 DE
 XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
 KW foetal liver kinase 1; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9715662-A2.
 XX
 PD 01-MAY-1997.
 XX
 PF 25-OCT-1996; 96WO-US017480.
 XX
 PR 26-OCT-1995; 95US-0005974P.
 PR 11-JAN-1996; 96US-00584040.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA
 PA (CHIR) CHIRON CORP.
 XX
 XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
 PI
 XX WPI; 1997-259017/23.
 DR
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
 PT rheumatoid arthritis, etc., in a human patient.
 XX
 PS Claim 4; Page 46; 218pp; English.
 XX
 CC The present invention describes nucleic acid molecules which modulate the
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more
 CC receptors of vascular endothelial growth factor (VEGF). A patient
 CC (preferably human) having a condition associated with the level of the
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
 CC treated by administering the nucleic acid molecule or the expression
 CC vector to the patient. AAX672/5 to AAX75/52 represent specific examples
 CC of nucleic acid molecules from the present invention

RESULT 997
AAAX68723/c
ID AAX68723 standard; RNA; 17 BP.
XX
XX AAX68723;
AC
XX
XX
XX 28-JUL-1999 (first entry)
XX
XX Human flt1 VEGF receptor hammerhead ribozyme substrate #18.
XX
XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
XX KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
XX tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
XX fms-like tyrosine kinase 1; kinase insert domain containing receptor;
XX foetal liver kinase 1; ss.
XX
XX Homo sapiens.
OS
XX W09715662-A2.
PN
XX
XX 01-MAY-1997.
PD
XX
XX 25-OCT-1996; 96WO-US017480.
XX
XX 26-OCT-1995; 95US-0005974P.
PR
XX 11-JAN-1996; 96US-00584040.
PR
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX (CHIR) CHIRON CORP.
XX
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
PI
XX WPI; 1997-259017/23.
DR
XX
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
PT rheumatoid arthritis, etc., in a human patient.
PT
XX
XX Claim 4; Page 47; 218pp; English.
PS
XX
XX The present invention describes nucleic acid molecules which modulate the
CC synthesis, expression and/or stability of a mRNA encoding 1 or more
CC receptors of vascular endothelial growth factor (VEGF). A patient
CC (preferably human) having a condition associated with the level of the
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
CC treated by administering the nucleic acid molecule or the expression
CC vector to the patient. AAX67275 to AAX75752 represent specific examples
CC of nucleic acid molecules from the present invention
XX
SQ Sequence 17 BP; 1 A; 8 C; 6 G; 0 T; 2 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 411 GTGATCGAGACGCG 425
DB 17 GTGAGCGCGACGCG 3
RESULT 998
AAAX74473/c
ID AAX74473 standard; RNA; 17 BP.
XX
XX AAX74473;
AC
XX
XX 28-JUL-1999 (first entry)
DT
XX
XX Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #1.

KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
 KW foetal liver kinase 1; ss.

XX Mus sp.

XX WO9715662-A2.

XX 01-MAY-1997.

XX 25-OCT-1996; 96WO-US017480.

XX 26-OCT-1995; 95US-0005974P.

XX 11-JAN-1996; 96US-00584040.

XX (RIBO-) RIBOZYME PHARM INC.

XX (CHIR) CHIRON CORP.

XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;

XX WPI; 1997-259017/23.

XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
 PT rheumatoid arthritis, etc., in a human patient.

XX Claim 4; Page 155; 218pp; English.

XX The present invention describes nucleic acid molecules which modulate the
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more
 CC receptors of vascular endothelial growth factor (VEGF). A patient
 CC (preferably human) having a condition associated with the level of the
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
 CC treated by administering the nucleic acid molecule or the expression
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples
 CC of nucleic acid molecules from the present invention

XX Sequence 17 BP; 1 A; 7 C; 5 G; 0 T; 4 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 5e+02;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 411 GTGATCGAGCGCG 425

Db 17 GTGAGCAAGCGCG 3

RESULT 999

AAX69044

ID AAX69044 standard; RNA; 17 BP.

XX AAX69044;

XX 28-JUL-1999 (first entry)

XX Human flt1 VEGF receptor hammerhead ribozyme substrate #339.

XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
 KW foetal liver kinase 1; ss.

XX Homo sapiens.

XX WO9715662-A2.

XX 01-MAY-1997.

XX 25-OCT-1996; 96WO-US017480.

XX 26-OCT-1995; 95US-0005974P.

XX 11-JAN-1996; 96US-00584040.

XX (RIBO-) RIBOZYME PHARM INC.

XX (CHIR) CHIRON CORP.

XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;

XX WPI; 1997-259017/23.

XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
 PT rheumatoid arthritis, etc., in a human patient.

XX Claim 4; Page 56; 218pp; English.

XX The present invention describes nucleic acid molecules which modulate the
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more
 CC receptors of vascular endothelial growth factor (VEGF). A patient
 CC (preferably human) having a condition associated with the level of the
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
 CC treated by administering the nucleic acid molecule or the expression
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples
 CC of nucleic acid molecules from the present invention

XX Sequence 17 BP; 6 A; 4 C; 4 G; 0 T; 3 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 73.3%; Pred. No. 5e+02;

Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 43 ATGCCCACTCTCAG 57

Db 1 AUGGCCAUCACUAG 15

RESULT 1000

AAX74474/C

ID AAX74474 standard; RNA; 17 BP.

XX AAX74474;

XX 28-JUL-1999 (first entry)

XX Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #2.

XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
 KW foetal liver kinase 1; ss.

XX Mus sp.

XX WO9715662-A2.

XX 01-MAY-1997.

XX 25-OCT-1996; 96WO-US017480.

XX 26-OCT-1995; 95US-0005974P.

XX 11-JAN-1996; 96US-00584040.

XX (RIBO-) RIBOZYME PHARM INC.

XX (CHIR) CHIRON CORP.

XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;

DR WPI; 1997-259017/23.
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
 PT rheumatoid arthritis, etc., in a human patient.
 XX
 PS Claim 4; Page 155; 218pp; English.
 XX
 CC The present invention describes nucleic acid molecules which modulate the
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more
 CC receptors of vascular endothelial growth factor (VEGF). A patient
 CC (preferably human) having a condition associated with the level of the
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
 CC treated by administering the nucleic acid molecule or the expression
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples
 CC of nucleic acid molecules from the present invention
 XX
 SQ Sequence 17 BP; 2 A; 8 C; 3 G; 0 T; 4 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 411 GTGATCGAGCGCG 425
 Db 15 GTGAGCAAGCGCG 1
 RESULT 1001
 AAT76176
 ID AAT76176 standard; DNA; 17 BP.
 XX
 AC AAT76176;
 XX
 DT 12-SEP-1997 (first entry)
 XX
 DE Human IL3 receptor antisense oligonucleotide.
 XX
 KW Asthma; airway epithelium; adenosine free; cystic fibrosis;
 KW chronic obstructive pulmonary disease; bronchitis; interleukin; ss.
 XX
 OS Synthetic.
 XX
 PN WO9640162-A1.
 XX
 PD 19-DEC-1996.
 XX
 PF 06-JUN-1996; 96WO-US009306.
 XX
 PR 07-JUN-1995; 95US-00474497.
 XX
 PA (UYEC-) UNIV EAST CAROLINA.
 XX
 PI Nyce JW, Metzger WJ;
 XX
 DR WPI; 1997-051871/05.
 XX
 PT Treatment of airway diseases such as asthma - by topically applying
 PT adenosine-free antisense oligo:nucleotide to airway epithelium of
 PT subject.
 XX
 PS Example 5; Page 29; 71pp; English.
 XX
 CC A method for treating airway disease in a subject has been produced,
 CC which involves the topical administration of an essentially adenosine
 CC free antisense oligonucleotide (ON) to the airway epithelium of the
 CC subject. The present sequence is an antisense oligonucleotide specific
 CC for the human IL3 receptor. The method can be used to treat airway
 CC diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary
 CC disease, bronchitis and other airway diseases characterised by an
 CC inflammatory response. By eliminating adenosine from the antisense ON,

CC its liberation upon antisense degradation is prevented, thereby
 CC preventing adenosine-induced bronchoconstriction in patients with hyper-
 CC reactive airways
 XX
 SQ Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 242 CTGCTTCCCGGGCTC 256
 Db 1 CTCTTTCGGGGCTC 15
 RESULT 1002
 AAA22825
 ID AAA22825 standard; RNA; 17 BP.
 XX
 AC AAA22825;
 XX
 DT 19-JUN-2000 (first entry)
 XX
 DE Integrin subunit beta 3 substrate sequence SEQ ID NO:6051.
 XX
 KW Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;
 KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;
 KW hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic;
 KW ophthalmologic; anti-inflammatory; anti-arthritic; antipruritic;
 KW dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;
 KW age related macular degeneration; inflammation; neovascular glaucoma;
 KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;
 KW tubercous sclerosis; pot-wine stain; Sturge Weber syndrome;
 KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9950403-A2.
 XX
 PD 07-OCT-1999.
 XX
 PF 24-MAR-1999; 99WO-US006507.
 XX
 PR 27-MAR-1998; 98US-0079678P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 PI Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;
 XX
 DR WPI; 1999-591315/50.
 XX
 PT Novel ribozymes for modulating the synthesis, expression and/or stability
 PT of an mRNA encoding an angiogenic factors.
 XX
 PS Claim 54; Page 244; 305pp; English.
 XX
 CC The present invention describes enzymatic nucleic acid molecules with RNA
 CC cleaving activity, which specifically cleave RNA encoded by an aryl
 CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3
 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to
 CC AAA17167 and AAA17561 to AAA17623 represent ribozyme sequences for ARNT,
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their
 CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to
 CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and
 CC AAA21596 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequences;
 CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequence
 CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to
 CC AAA23422 represent their corresponding target sequences. The ribozymes of
 CC the invention are used for modulating the synthesis, expression and/or
 CC stability of an mRNA encoding angiogenic factor, especially ARNT.

CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are
CC especially used to treat cancer, diabetic retinopathy, age related
CC macular degeneration (ARMD), inflammation, and arthritis, as well as
CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,
CC angiofibroma of tuberosus sclerosus, pot-wine stains, Sturge Weber
CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,
CC and other syndromes and diseases related to the levels of ARNT, Tie-2,
CC integrin subunit alpha-6, or integrin subunit beta-3
XX
SQ Sequence 17 BP; 0 A; 8 C; 4 G; 0 T; 5 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 66.7%; Pred. No. 5e+02; Indels 0; Gaps 0;
Matches 10; Conservative 3; Mismatches 2;

QY 242 CTGCTTCGGGCTC 256
DB 3 CGGCUUCCGGGUUC 17

RESULT 1003
AAA22832/C
ID AAA22832 standard; RNA; 17 BP.
XX
AC AAA22832;
XX
DT 19-JUN-2000 (first entry)
XX
DE Integrin subunit beta 3 substrate sequence SEQ ID NO:6058.
XX
KW Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;
KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;
KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;
KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;
KW dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;
KW age related macular degeneration; inflammation; neovascular glaucoma;
KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;
KW tuberosus sclerosus; pot-wine stain; Sturge Weber syndrome;
KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.
XX
OS Homo sapiens.
XX
PN WO9950403-A2.
XX
PD 07-OCT-1999.
XX
PF 24-MAR-1999; 99WO-US006507.
XX
PR 27-MAR-1998; 98US-0079678P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;
XX
DR WPI; 1999-591315/50.
XX
PT Novel ribozymes for modulating the synthesis, expression and/or stability
PT of an mRNA encoding an angiogenic factors.
XX
PS Claim 54; Page 245; 305pp; English.
XX
CC The present invention describes enzymatic nucleic acid molecules with RNA
CC cleaving activity, which specifically cleave RNA encoded by an aryl
CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3
CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to
CC AAA17167 and AAA17560 and AAA17623 to AAA17684 represent their
CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to
CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086
CC and AAA19155 to AAA19222 represent their corresponding target sequences;
CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme
CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and
CC AAA21596 to AAA21689 represent their corresponding target sequences;

CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequence
CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to
CC AAA23422 represent their corresponding target sequences. The ribozymes of
CC the invention are used for modulating the synthesis, expression and/or
CC stability of an mRNA encoding angiogenic factor especially ARNT.
CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are
CC especially used to treat cancer, diabetic retinopathy, age related
CC macular degeneration (ARMD), inflammation, and arthritis, as well as
CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,
CC angiofibroma of tuberosus sclerosus, pot-wine stains, Sturge Weber
CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,
CC and other syndromes and diseases related to the levels of ARNT, Tie-2,
CC integrin subunit alpha-6, or integrin subunit beta-3
XX
SQ Sequence 17 BP; 3 A; 7 C; 4 G; 0 T; 3 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2;

QY 230 CAATCCGGAGGCTG 244
DB 17 CTACTCGGAGGCTG 3

RESULT 1004
AAA21483/C
ID AAA21483 standard; RNA; 17 BP.
XX
AC AAA21483;
XX
DT 19-JUN-2000 (first entry)
XX
DE Integrin alpha 6 subunit substrate sequence SEQ ID NO:4709.
XX
KW Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;
KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;
KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;
KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;
KW dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;
KW age related macular degeneration; inflammation; neovascular glaucoma;
KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;
KW tuberosus sclerosus; pot-wine stain; Sturge Weber syndrome;
KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.
XX
OS Homo sapiens.
XX
PN WO9950403-A2.
XX
PD 07-OCT-1999.
XX
PF 24-MAR-1999; 99WO-US006507.
XX
PR 27-MAR-1998; 98US-0079678P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;
XX
DR WPI; 1999-591315/50.
XX
PT Novel ribozymes for modulating the synthesis, expression and/or stability
PT of an mRNA encoding an angiogenic factors.
XX
PS Claim 55; Page 211; 305pp; English.
XX
CC The present invention describes enzymatic nucleic acid molecules with RNA
CC cleaving activity, which specifically cleave RNA encoded by an aryl
CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3
CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to
CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,
CC and AAA17685 to AAA17684 represent their corresponding target sequences;
CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme
CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and
CC AAA21596 to AAA21689 represent their corresponding target sequences;

CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and
 CC AAA21596 to AAA21688 represent their corresponding target sequences;
 CC AAA21689 to AAA22475 and AAA22476 to AAA23342 represent ribozyme sequences
 CC for integrin subunit beta 3, and AAA22476 to AAA23342 represent ribozyme sequences
 CC AAA23442 represent their corresponding target sequences. The ribozymes of
 CC the invention are used for modulating the synthesis, expression and/or
 CC stability of an mRNA encoding angiogenic factor, especially ARNT,
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are
 CC especially used to treat cancer, diabetic retinopathy, age related
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,
 CC integrin subunit alpha-6, or integrin subunit beta-3
 CC
 CC Sequence 17 BP; 6 A; 1 C; 4 G; 0 T; 6 U; 0 Other;
 CC
 CC Query Match 2.8%; Score 11.8; DB 1; Length 17;
 CC Best Local Similarity 86.7%; Pred. No. 5e+02;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 187 CACATATCCACTGCT 201
 DB 15 CACATATCAATGCT 1
 ||||| |||||
 ||||| |||||

RESULT 1005

AAA22734/C
 ID AAA22734 standard; RNA; 17 BP.
 XX
 AC AAA22734;
 XX
 DT 19-JUN-2000 (first entry)
 XX
 DE Integrin subunit beta 3 substrate sequence SEQ ID NO:5960.

XX Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;
 KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;
 KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;
 KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;
 KW dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;
 KW age related macular degeneration; inflammation; neovascular glaucoma;
 KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;
 KW tuberous sclerosis; pot-wine stain; Sturge Weber syndrome;
 KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9950403-A2.
 XX
 XX 07-OCT-1999.
 XX
 XX 24-MAR-1999; 99WO-US006507.
 XX
 XX 27-MAR-1998; 98US-0079678P.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 XX
 XX Pavco PA, Roberts E, Jarvis T, Coeshott C, Meswiggen JA;
 XX
 XX WPI; 1999-591315/50.
 DR
 XX Novel ribozymes for modulating the synthesis, expression and/or stability
 XX of an mRNA encoding an angiogenic factors.
 PT
 XX Claim 54; Page 239; 305pp; English.
 PS
 CC The present invention describes enzymatic cleavage RNA molecules with RNA
 CC cleaving activity, which specifically cleave RNA encoded by an aryl

CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3
 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene, AAA16775 to
 CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their
 CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to
 CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and
 CC AAA21596 to AAA21688 represent their corresponding target sequences;
 CC AAA21689 to AAA22475 and AAA22476 to AAA23342 represent ribozyme sequences
 CC for integrin subunit beta 3, and AAA22476 to AAA23342 represent ribozyme sequences
 CC AAA23442 represent their corresponding target sequences. The ribozymes of
 CC the invention are used for modulating the synthesis, expression and/or
 CC stability of an mRNA encoding angiogenic factor, especially ARNT,
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are
 CC especially used to treat cancer, diabetic retinopathy, age related
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,
 CC integrin subunit alpha-6, or integrin subunit beta-3
 CC
 CC Sequence 17 BP; 3 A; 7 C; 4 G; 0 T; 3 U; 0 Other;
 CC
 CC Query Match 2.8%; Score 11.8; DB 1; Length 17;
 CC Best Local Similarity 86.7%; Pred. No. 5e+02;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 230 CAAATCGGAGGCTG 244

DB 17 CTACTCGGAGGCTG 3
 ||||| |||||
 ||||| |||||

RESULT 1006

AA53973
 ID AA53973 standard; DNA; 17 BP.
 XX
 AC AA53973;
 XX
 DT 05-JUL-1999 (first entry)
 XX
 DE Human IL-3 receptor antisense oligonucleotide fragment.
 XX
 KW Antisense oligonucleotide; multiple target; antisense treatment;
 KW impaired respiration; inflammation; lung disease;
 KW pulmonary vasoconstriction; inflammation; allergic rhinitis;
 KW acute asthma; allergy; asthma; impaired respiration;
 KW respiratory distress syndrome; pain; cystic fibrosis;
 KW pulmonary hypertension; pulmonary vasoconstriction; emphysema;
 KW chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;
 KW colon cancer; breast cancer; lung cancer; pancreatic cancer;
 KW hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
 KW prostate cancer; ss.
 XX
 OS Synthetic.
 XX
 PN WO9913886-A1.
 XX
 XX 25-MAR-1999.
 XX
 XX 17-SEP-1998; 98WO-US019419.
 PF
 XX 17-SEP-1997; 97US-0059160P.
 PR
 XX 09-JUN-1998; 98US-00093972.
 XX
 XX (UYEC-) UNIV EAST CAROLINA.
 PA
 XX Nyce JW;
 PI
 XX WPI; 1999-229400/19.
 DR
 XX

PT New antisense oligonucleotides used in treatment of, e.g. pulmonary
PT vasoconstriction.
XX Disclosure; Page 48; 120pp; English.
XX
XX The specification describes antisense oligonucleotides (AA52869-X55271)
CC directed against at least 2 mRNAs selected from target genes, coding and
CC non-coding regions of RNAs corresponding to target genes, gene initiation
CC codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'
CC -end and the juxta-section between coding and non-coding regions and all
CC segments of RNAs encoding proteins associated with one or more diseases,
CC conditions or mixtures. The antisense oligonucleotides may be derived
CC from sequences AA5272-74. These multiple target oligonucleotides
CC (specifically AA55180-271) can be used for the antisense treatment of
CC diseases and conditions. Typical diseases and conditions are those
CC associated with impaired respiration and inflammation, including lung
CC diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis,
CC acute asthma, allergies, asthma, impaired respiration, respiratory
CC distress syndrome, pain, cystic fibrosis, pulmonary hypertension,
CC pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary
CC disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g.
CC colon cancer, breast cancer, lung cancer, pancreatic cancer,
CC hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as
CC well as all types of cancers which may metastasize or have metastasized
CC to the lungs, including breast and prostate cancer
XX
XX Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2;
Qy 242 CTGCTTCGCGGCTC 256
Db 1 CTCCTTCGCGGCTC 15
RESULT 1007
AAV72257/C
ID AAV72257 standard; DNA; 17 BP.
XX
XX AAV72257;
XX
XX 24-MAY-1999 (first entry)
XX
XX S. cerevisiae galactose metabolism gene promoter Gal4 binding site.
XX Gal4 binding site; gene expression regulation; transgenic plant;
XX chimeric; promoter; DNA binding domain; plant disease resistance;
XX pest resistance; grain quality; oil composition; starch composition;
XX protein composition; transcription factor; seed storage protein;
XX multiple transgene regulation; tissue-specific promoter;
XX developmentally regulated promoter; ss.
XX
XX Saccharomyces cerevisiae.
OS
XX WO9859062-A1.
XX
XX 30-DEC-1998.
XX
XX 23-JUN-1998; 98WO-US013006.
XX
XX 24-JUN-1997; 97US-00881687.
XX
XX (DUPO) DU PONT DE NEMOURS & CO E I.
XX
XX Liu Z, Odell JT;
XX
XX WPI; 1999-105629/09.
XX
XX Regulating gene expression in a stably transformed transgenic plant cell
PT - useful for improving plant disease and pest resistance, and grain
PT quality.

XX
PS Disclosure; Page 31; 75pp; English.
XX
XX This sequence is used to describe a method for regulating gene expression
CC in a stably transformed transgenic plant cell. The method comprises
CC introducing two chimeric genes (5' to 3') into the plant cell genome. The
CC first gene comprises a promoter operably linked to a Gal4 binding
CC sequence and a coding sequence (including complementary sequences), which
CC is itself linked to a polyadenylation signal sequence. The Gal4 sequence
CC is located upstream of the promoter if a minimal promoter is used. The
CC second chimeric gene comprises a promoter, and a DNA sequence encoding a
CC DNA binding domain of Gal4 transcriptional activator, which is operably
CC linked to a DNA sequence encoding a transcriptional activation domain.
CC This sequence is itself operably linked to a polyadenylation signal
CC sequence. The expression of the second chimeric gene regulates the
CC expression of the first chimeric gene. The method is useful for improving
CC plant disease and pest resistance, in addition to grain quality (e.g.
CC Oil, starch or protein composition). The method (using the Gal4 chimeric
CC transcription factor) achieves a higher level of expression when compared
CC to the level using the highly expressed seed storage protein gene
CC promoter. It also achieves activation of expression in grain, control of
CC multiple transgene regulation, and amplification of the expression level
CC while maintaining the expression pattern of a tissue-specific or
CC developmentally regulated promoter
XX
XX Sequence 17 BP; 1 A; 9 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2;
Qy 272 GGAGCAGCGCGGCAC 286
Db 16 GGAGCAGCGCGGC 2
RESULT 1008
AAA33417
ID AAA33417 standard; DNA; 17 BP.
XX
XX AAA33417;
XX
XX 28-JUL-2000 (first entry)
XX
XX Low adenosine antisense oligonucleotide SEQ ID NO:1106.
XX Human; adenosine receptor; low adenosine antisense oligonucleotide;
XX phosphorothioate; impaired respiration; inflammation; allergy;
XX allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
XX antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway;
XX lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
XX respiratory distress syndrome; pain; cystic fibrosis; emphysema;
XX pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
XX cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
XX
XX Homo sapiens.
OS
XX WO200009525-A2.
XX
XX 24-FEB-2000.
XX
XX 03-AUG-1999; 99WO-US017712.
XX
XX 03-AUG-1998; 98US-0095212P.
XX
XX (UYEC-) UNIV EAST CAROLINA.
XX
XX Nyce JW;
XX
XX WPI; 2000-205971/18.
XX
XX New antisense oligonucleotides useful for treating e.g. pulmonary
PT vasoconstriction, inflammation, allergies, asthma, hypertension,
PT

PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
PT cancers.
XX
PS Claim 19; Page 403; 1343pp; English.
XX
CC The present invention describes a new composition comprising an antisense
CC oligonucleotide (ON) with low adenine (up to 15%), which targets
CC nucleic acids involved in bronchoconstriction, allergies, and/or
CC inflammation. The ON can have antiinflammatory, antiallergic,
CC antiasthmatic, cytostatic and analgesic activities. The compositions are
CC useful for the treatment of diseases associated with inflammation,
CC impaired airways, including lung disease and diseases whose secondary
CC effects afflict the lungs of a subject. They can be used for treating
CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma,
CC impeded respiration, respiratory distress syndrome, pain, cystic
CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive
CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,
CC carcinomas, and cancers which may metastasize to the lungs, including
CC breast and prostate cancer. The reduction of the adenine content of the
CC ONs reduces side effects. The A-containing ONs break down with the
CC release of deoxyadenosine which activates adenosine receptors causing
CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the
CC nucleotide sequences given in the sequence listing from the present
CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185
CC sequences are also called SEQ ID NO:1 to 185, but the sequences differ
CC from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to
CC AAA33992) are specifically claimed ONs from the present invention. N.B.
CC Sequences given in the disclosure of the present invention do not match
CC up with their corresponding SEQ ID NO: sequences given in the sequence
CC listing
XX
SQ Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2;

QY 242 CTGCTTCCCGGCTC 256
Db 1 CTCTTCCCGGCTC 15

RESULT 1009
AAF19539
ID AAF19539 standard; DNA; 17 BP.
XX
AC AAF19539;
XX
DT 14-MAR-2001 (first entry)
XX
DE Human IL3 receptor polynucleotide fragment #1106.
XX
KW Low adenine antisense oligonucleotide; phosphorothioate; allergy;
KW human; airway disorder; bronchoconstriction; lung inflammation;
KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;
KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
KW respiratory obstruction; pulmonary obstruction; impeded respiration;
KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;
KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
KW pulmonary hypertension; emphysema; pulmonary transplantation rejection;
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
KW cancer; ss.
XX
OS Homo sapiens.
XX
FN WO200062736-A2.
XX
PD 26-OCT-2000.
XX
PF 24-MAR-2000; 2000WO-US008020.
XX
PR 06-APR-1999; 99US-0127958P.
XX

(UYEC-) UNIV EAST CAROLINA.
(NYCE/) NYCE J.W.
Nyce JW;
WPI; 2000-679539/66.

Low adenine (A) content antisense oligonucleotides which do not trigger
adenine receptors during metabolism, useful e.g. for treating cancers
and respiratory obstructions.

Claim 14; Page 207; 1592pp; English.

The present invention describes low adenine (A) content antisense
oligonucleotides and compositions (i) comprising them. In the antisense
oligonucleotides the A is replaced by a 'Universal' or alternative base.
(i) can have respiratory, bronchodilator, antiinflammatory, analgesic,
immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.
The antisense oligonucleotides and (i) can be used to down-regulate the
expression and/or activity of target polypeptides associated with
lung/respiratory disorders and malignancies, such as stimulating and
activating peptide factors and transmitters, transcription factors,
immunoglobulins and antibodies, antibody receptors, cytokines and
chemokines, endogenously produced specific and non-specific enzymes,
binding proteins, adhesion molecules and their receptors, cytokine and
chemokine receptors, adenosine receptors, bradykinin receptors, central
nervous system (CNS) and peripheral nervous and non-nervous system
receptors, CNS and peripheral nervous and non-nervous system peptide
transmitters, defensins, growth factors, vasoactive peptides and
receptors, binding proteins and malignancy associated proteins. The
antisense oligonucleotides may be used in this way to treat disorders
including respiratory obstruction (especially pulmonary obstruction
and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or
surfactant hypoproduction which are associated with a disease or
condition selected from pulmonary vasoconstriction, inflammation,
allergies, asthma, impeded respiration, respiratory distress syndrome
(RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
pulmonary transplantation rejection, pulmonary infections, bronchitis,
and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
fragments and antisense oligonucleotides used in the exemplification of
the present invention

Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2;

QY 242 CTGCTTCCCGGCTC 256
Db 1 CTCTTCCCGGCTC 15

RESULT 1010
AAA25624/C
ID AAA25624 standard; DNA; 17 BP.
XX
AC AAA25624;
XX
DT 19-JUL-2000 (first entry)
XX
DE Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:2122.
XX
KW Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;
KW hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;
KW gene expression modification; cancer; phosphorothioate; endonuclease;
KW anticancer; breast cancer; endometrium cancer; ss.
XX
OS Homo sapiens.
XX
PN WO9954459-A2.
XX

PD 28-OCT-1999. 99WO-US008547.
 XX 19-APR-1999; 99WO-US008547.
 XX 20-APR-1998; 98US-0082404P.
 XX 23-JUN-1998; 98US-00103636.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX Thompson JD, Beigelman L, Mcswiggen JA, Karpeisky A, Bellon L;
 XX Reynolds M, Zwick M, Jarvis T, Woolf T, Haerberli P;
 XX Matulic-Adamic J;
 XX WPI; 2000-013248/01.
 XX New nucleic acids that interact, and optionally cleave, target sequences,
 XX used to treat cancer.
 XX Claim 77; Page 85; 148pp; English.
 XX The present invention describes nucleic acids (A) that interact stably
 XX with a target sequence and contain at least one phosphorodithioate
 XX link, having endonuclease activity. (A), and more generally any catalytic
 XX nucleic acid (A') that modulates expression of the oestrogen receptor
 XX gene, are used to treat cancer (particularly of breast or endometrium),
 XX in vivo or by transforming cells ex vivo and implanting treated cells, or
 XX for other conditions associated with levels of oestrogen receptor.
 XX Because of the high selectivity for targeted RNA, (A) can also be used to
 XX correlate inhibition of gene expression with alterations in phenotype,
 XX particularly for identification of therapeutic targets, and as research
 XX reagents (for RNA, in the same way that restriction endonucleases are
 XX used with DNA). The combination of modifications in (A) improves
 XX resistance to nucleases, binding affinity and/or activity. AAA23503 to
 XX AAA24747 represent oestrogen receptor hammerhead ribozyme sequences, and
 XX AAA25993 to AAA26105 represent oestrogen receptor hairpin ribozyme
 XX sequences, and AAA26107 to AAA26218 represent their corresponding target
 XX sequences. AAA26219 to AAA26271 represent other ribozyme sequences and
 XX antisense oligonucleotides used in the exemplification of the present
 XX invention
 XX Sequence 17 BP; 1 A; 10 C; 1 G; 5 T; 0 U; 0 Other;
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
 XX Best Local Similarity 86.7%; Pred. No. 5e+02;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 201 TCGGTCAAGCAGAG 215
 DB 16 TCGGGGAAGCAGAG 2
 RESULT 1011
 AAA24803/c
 ID AAA24803 standard; DNA; 17 BP.
 XX AAA24803;
 AC AAA24803;
 DT 19-JUL-2000 (first entry)
 XX Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:1301.
 DE Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;
 XX hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;
 KW gene expression modification; cancer; phosphorothioate; endonuclease;
 KW anticancer; breast cancer; endometrium cancer; ss.
 XX Homo sapiens.
 OS WO9954459-A2.
 XX 28-OCT-1999.
 XX 19-APR-1999;
 XX 99WO-US008547.

PF 19-APR-1999; 99WO-US008547.
 XX 20-APR-1998; 98US-0082404P.
 XX 23-JUN-1998; 98US-00103636.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX Thompson JD, Beigelman L, Mcswiggen JA, Karpeisky A, Bellon L;
 XX Reynolds M, Zwick M, Jarvis T, Woolf T, Haerberli P;
 XX Matulic-Adamic J;
 XX WPI; 2000-013248/01.
 XX New nucleic acids that interact, and optionally cleave, target sequences,
 XX used to treat cancer.
 XX Claim 77; Page 58; 148pp; English.
 XX The present invention describes nucleic acids (A) that interact stably
 XX with a target sequence and contain at least one phosphorodithioate
 XX link, having endonuclease activity. (A), and more generally any catalytic
 XX nucleic acid (A') that modulates expression of the oestrogen receptor
 XX gene, are used to treat cancer (particularly of breast or endometrium),
 XX in vivo or by transforming cells ex vivo and implanting treated cells, or
 XX for other conditions associated with levels of oestrogen receptor.
 XX Because of the high selectivity for targeted RNA, (A) can also be used to
 XX correlate inhibition of gene expression with alterations in phenotype,
 XX particularly for identification of therapeutic targets, and as research
 XX reagents (for RNA, in the same way that restriction endonucleases are
 XX used with DNA). The combination of modifications in (A) improves
 XX resistance to nucleases, binding affinity and/or activity. AAA23503 to
 XX AAA24747 represent oestrogen receptor hammerhead ribozyme sequences, and
 XX AAA25993 to AAA26105 represent oestrogen receptor hairpin ribozyme
 XX sequences, and AAA26107 to AAA26218 represent their corresponding target
 XX sequences. AAA26219 to AAA26271 represent other ribozyme sequences and
 XX antisense oligonucleotides used in the exemplification of the present
 XX invention
 XX Sequence 17 BP; 3 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
 XX Best Local Similarity 86.7%; Pred. No. 5e+02;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 215 GAACTCGGTGGCGGC 229
 DB 16 GAACTCGGTGGCGGC 2
 RESULT 1012
 AAA24804
 ID AAA24804 standard; DNA; 17 BP.
 XX AAA24804;
 AC AAA24804;
 DT 19-JUL-2000 (first entry)
 XX Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:1302.
 DE Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;
 XX hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;
 KW gene expression modification; cancer; phosphorothioate; endonuclease;
 KW anticancer; breast cancer; endometrium cancer; ss.
 XX Homo sapiens.
 OS WO9954459-A2.
 XX 28-OCT-1999.
 XX 19-APR-1999;
 XX 99WO-US008547.

PI Altshuler D, Cargill M, Daley GQ, Ireland JS, Lander ES;
 PI Lipshutz RJ, Patil N, Sklar P;
 DR WPI; 2000-611722/58.
 XX Nucleic acid selected from one of 106 genes comprising single nucleotide
 PT polymorphisms, allele-specific oligonucleotides to the genes are useful
 PT for phenotypic correlations, forensics, paternity testing, medicine and
 PT genetic analysis.
 XX Claim 8; Fig 5; 214pp; English.
 XX The present invention is concerned with a number of human single
 CC nucleotide polymorphisms (SNPs) which the inventors identified in human
 CC genes. These SNPs can be used in disease diagnosis and prediction of an
 CC individual's susceptibility to disease, in forensic and paternity testing
 CC and in genetic mapping. In particular, the SNPs of the invention can be
 CC used to diagnose susceptibility to diseases of the cardiovascular,
 CC endocrine and neurological systems, such as coronary artery disease,
 CC schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's
 CC diseases
 XX Sequence 17 BP; 3 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 0; Gaps 0;
 Matches 13; Conservative 0; Indels 2; Indels 0; Gaps 0;
 QY 314 GGACCGCGTGGC 328
 Db 3 GGACCGTGGTGGC 17
 RESULT 1015
 AAC70192
 ID AAC70192 standard; DNA; 17 BP.
 AC AAC70192;
 DT 09-FEB-2001 (first entry)
 XX Single nucleotide polymorphism PCR primer #15.
 DE Single nucleotide polymorphism; SNP; human; genetic disease;
 XX disease susceptibility; cardiovascular system; endocrine system;
 KW neurological system; forensic testing; paternity testing; PCR primer; as.
 XX Homo sapiens.
 OS
 XX WO200058519-A2.
 XX 05-OCT-2000.
 XX 30-MAR-2000; 2000WO-US008440.
 XX 31-MAR-1999; 99US-0127248P.
 XX (WHEED) WHITEHEAD INST BIOMEDICAL RES.
 PA (AFFY-) AFFYMETRIX INC.
 PA Altshuler D, Cargill M, Daley GQ, Ireland JS, Lander ES;
 PI Lipshutz RJ, Patil N, Sklar P;
 XX WPI; 2000-611722/58.
 XX Nucleic acid selected from one of 106 genes comprising single nucleotide
 PT polymorphisms, allele-specific oligonucleotides to the genes are useful
 PT for phenotypic correlations, forensics, paternity testing, medicine and
 PT genetic analysis.
 XX Claim 8; Fig 5; 214pp; English.
 XX The present invention is concerned with a number of human single

CC nucleotide polymorphisms (SNPs) which the inventors identified in human
 CC genes. These SNPs can be used in disease diagnosis and prediction of an
 CC individual's susceptibility to disease, in forensic and paternity testing
 CC and in genetic mapping. In particular, the SNPs of the invention can be
 CC used to diagnose susceptibility to diseases of the cardiovascular,
 CC endocrine and neurological systems, such as coronary artery disease,
 CC schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's
 CC diseases
 XX Sequence 17 BP; 3 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 0; Gaps 0;
 Matches 13; Conservative 0; Indels 2; Indels 0; Gaps 0;
 QY 314 GGACCGCGTGGC 328
 Db 3 GGACCGTGGTGGC 17
 RESULT 1016
 AAF06942
 ID AAF06942 standard; DNA; 17 BP.
 XX AAF06942;
 AC AAF06942;
 DT 16-FEB-2001 (first entry)
 XX Hammerhead ribozyme substrate #3199.
 DE Ribozyme; erythropoietin; granulocyte colony stimulating factor;
 KW interferon alpha, ss.
 XX Homo sapiens.
 OS
 XX WO200061729-A2.
 XX 19-OCT-2000.
 XX 11-APR-2000; 2000WO-US009721.
 XX 12-APR-1999; 99US-0129390P.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX Blatt L, Zwick M, Pavco P, Mcswiggen J;
 XX WPI; 2000-647423/62.
 XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
 PT useful for producing e.g. granulocyte colony stimulating factor protein,
 PT interferon alpha and erythropoietin.
 XX Claim 54; Page 130; 164pp; English.
 XX The present invention relates to enzymatic and antisense nucleic acid
 CC molecules that act as inhibitors of the expression of repressor genes
 CC encoding the TR2 Orphan receptor, ZAR3/COUP-TF-1, the GATA transcription
 CC factor gene, IRF-2 and/or the C/EBP Displacement protein (CDP).
 CC Inhibition of the repressors removes prevents inhibition (and
 CC consequently increases expression of) genes involved in the production of
 CC erythropoietin, granulocyte colony stimulating factor protein and
 CC interferon alpha
 XX Sequence 17 BP; 6 A; 5 C; 4 G; 2 T; 0 U; 0 Other;
 SQ
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 2; Indels 0;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 212 AGAGAACTCGGTGGC 226
 Db 1 AGAGAACTCGGTGGC 15

XX The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the R2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CCAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX
SQ Sequence 17 BP; 1 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 348 CTGCTCTACAGGAC 362
DB 2 CTGCTCTCAGGCC 16
|||||

RESULT 1020
ABK00045/C
ID ABK00045 standard; RNA; 17 BP.
XX
AC ABK00045;
XX
DT 12-MAR-2002 (first entry)
XX
DE Human NOGO Hammerhead Ribozyme #45.
XX
KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
KW DNazyme; inozyme; G-cleaver; amberzyme; zinczyme; lymphoma; leukaemia;
KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;
KW inflammatory arthropathy; central nervous system injury;
KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
KW Parkinson's disease; ataxia; Huntington's disease;
KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
XX
OS Homo sapiens.
OS Synthetic.
XX
XX WO200159103-A2.
XX
XX 16-AUG-2001.
XX
XX 09-FEB-2001; 2001WO-US004273.
XX
XX 11-FEB-2000; 2000US-0181797P.
XX
XX 28-FEB-2000; 2000US-0185516P.
XX
XX 06-MAR-2000; 2000US-0187128P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX (BLAT/) BLATT L.
XX (MCSW/) MCSWIGGEN J.
XX (CHOW/) CHOWRIRA B M.
XX
XX Blatt L, Mcswiggen J, Chowrira BM;
XX
XX WPI; 2001-607195/69.
XX
XX
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
XX constructs, which down regulate expression of a CD20 gene or neurite
XX growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
XX central nervous system injury.
XX
XX Claim 88; Page 66; 200pp; English.

CC The invention relates to a nucleic acid molecule which down regulates
CC expression of a CD20 gene and a nucleic acid molecule which down
CC regulates expression of a neurite growth inhibitor gene (NOGO). The
CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule
CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or
CC an amberzyme (cleaving RNA with an NGN triplet), a zinczyme (cleaving RNA
CC with a VGY motif). The CD20-targeting nucleic acid is used to cleave RNA
CC of CD20 in the presence of a divalent cation that is preferably Mg²⁺.
CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
CC the cell and treat a patient having a condition associated with the level
CC of CD20. The treatment may further comprise the use of one or more
CC therapies. In particular, the CD20 targeting nucleic acid may be used to
CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-
CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the
CC presence of a divalent cation that is preferably Mg²⁺. Furthermore, the
CC nucleic acid may be contacted with a cell to reduce NOGO activity of the
CC cell and treat a patient having a condition associated with the level of
CC NOGO. The treatment may further comprise the use of one or more
CC therapies. In particular, the NOGO-targeting nucleic acid may be used to
CC treat central nervous system (CNS) injury and cerebrovascular accident
CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
CC disease, muscular dystrophy, and/or other neurodegenerative disease
CC states which respond to the modulation of NOGO expression. The present
CC sequence is a hammerhead ribozyme of the invention
XX
SQ Sequence 17 BP; 0 A; 12 C; 2 G; 0 T; 3 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 143 GCGGTGGAGCGCG 157
DB 16 GAGGGGGAGGCGCG 2
|||||

RESULT 1021
ABK00895/C
ID ABK00895 standard; RNA; 17 BP.
XX
XX AC ABK00895;
XX
XX 12-MAR-2002 (first entry)
XX
XX DE Human NOGO Inozyme #165.
XX
XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
XX cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
XX muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
XX DNazyme; inozyme; G-cleaver; amberzyme; zinczyme; lymphoma; leukaemia;
XX B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
XX human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
XX MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;
XX inflammatory arthropathy; central nervous system injury;
XX cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
XX chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
XX Parkinson's disease; ataxia; Huntington's disease;
XX Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
XX
OS Homo sapiens.
OS Synthetic.
XX
XX WO200159103-A2.
XX
XX 16-AUG-2001.

PF 09-FEB-2001; 2001WO-US004273.
 XX 11-FEB-2000; 2000US-0181797P.
 PR 28-FEB-2000; 2000US-0185516P.
 PR 06-MAR-2000; 2000US-0187128P.
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (BLAT/) BLATT L.
 PA (MCSW/) MCSWIGGEN J.
 PA (CHOW/) CHOWRIRA B M.
 XX Blatt L, Mcswiggen J, Chowrira BM;
 XX WPI; 2001-607195/69.
 DR Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
 PT constructs, which down regulate expression of a CD20 gene or neurite
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
 PT central nervous system injury.
 XX Claim 88; Page 80; 200pp; English.
 XX The invention relates to a nucleic acid molecule which down regulates
 CC expression of a CD20 gene and a nucleic acid molecule which down
 CC regulates expression of a neurite growth inhibitor gene (NIGO). The
 CC nucleic acids may be enzymatic nucleic acids (e.g., a ribozyme or a
 CC DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or
 CC an amberyzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA
 CC of CD20 in the presence of a divalent cation that is preferably Mg²⁺.
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
 CC the cell and treat a patient having a condition associated with the level
 CC of CD20. The treatment may further comprise the use of one or more
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
 CC immune thrombocytopenia, and inflammatory arthropathy. The NIGO-
 CC targeting nucleic acid is used to cleave RNA of the NIGO gene in the
 CC presence of a divalent cation that is preferably Mg²⁺. Furthermore, the
 CC nucleic acid may be contacted with a cell to reduce NIGO activity of the
 CC cell and treat a patient having a condition associated with the level of
 CC NIGO. The treatment may further comprise the use of one or more
 CC therapies. In particular, the NIGO-targeting nucleic acid may be used to
 CC treat central nervous system (CNS) injury and cerebrovascular accident
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
 CC disease, muscular dystrophy, and/or other neurodegenerative disease.
 CC states which respond to the modulation of NIGO expression. The present
 CC sequence is an inozyme of the invention
 XX Sequence 17 BP; 0 A; 12 C; 2 G; 0 T; 3 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 143 GCGGTGGAGCGCG 157
 |||||
 Db 15 GGAGGGGAGCGCG 1
 RESULT 1022
 ABK01170/c
 ID ABK01170 standard; RNA; 17 BP.
 XX
 AC ABK01170;
 XX
 DT 12-MAR-2002 (first entry)
 XX

DE XX Human NIGO Inozyme #440.
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
 KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;
 KW muscular; CD20; neurite growth inhibitor gene; NIGO; hammerhead ribozyme;
 KW DNzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
 KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;
 KW inflammatory arthropathy; central nervous system injury;
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
 KW Parkinson's disease; ataxia; Huntington's disease;
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
 XX Homo sapiens.
 OS Synthetic.
 OS WO200159103-A2.
 PN 16-AUG-2001.
 PD 09-FEB-2001; 2001WO-US004273.
 PF 11-FEB-2000; 2000US-0181797P.
 PR 28-FEB-2000; 2000US-0185516P.
 PR 06-MAR-2000; 2000US-0187128P.
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (BLAT/) BLATT L.
 PA (MCSW/) MCSWIGGEN J.
 PA (CHOW/) CHOWRIRA B M.
 PI Blatt L, Mcswiggen J, Chowrira BM;
 WPI; 2001-607195/69.
 DR Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
 PT constructs, which down regulate expression of a CD20 gene or neurite
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
 PT central nervous system injury.
 PS Claim 88; Page 85; 200pp; English.
 CC The invention relates to a nucleic acid molecule which down regulates
 CC expression of a CD20 gene and a nucleic acid molecule which down
 CC regulates expression of a neurite growth inhibitor gene (NIGO). The
 CC nucleic acids may be enzymatic nucleic acids (e.g., a ribozyme or a
 CC DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or
 CC an amberyzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA
 CC of CD20 in the presence of a divalent cation that is preferably Mg²⁺.
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
 CC the cell and treat a patient having a condition associated with the level
 CC of CD20. The treatment may further comprise the use of one or more
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
 CC immune thrombocytopenia, and inflammatory arthropathy. The NIGO-
 CC targeting nucleic acid is used to cleave RNA of the NIGO gene in the
 CC presence of a divalent cation that is preferably Mg²⁺. Furthermore, the
 CC nucleic acid may be contacted with a cell to reduce NIGO activity of the
 CC cell and treat a patient having a condition associated with the level of
 CC NIGO. The treatment may further comprise the use of one or more
 CC therapies. In particular, the NIGO-targeting nucleic acid may be used to
 CC treat central nervous system (CNS) injury and cerebrovascular accident
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
 CC disease, muscular dystrophy, and/or other neurodegenerative disease.
 CC states which respond to the modulation of NIGO expression. The present
 CC sequence is an inozyme of the invention
 XX Sequence 17 BP; 0 A; 12 C; 2 G; 0 T; 3 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 143 GCGGTGGAGCGCG 157
 |||||
 Db 15 GGAGGGGAGCGCG 1
 RESULT 1022
 ABK01170/c
 ID ABK01170 standard; RNA; 17 BP.
 XX
 AC ABK01170;
 XX
 DT 12-MAR-2002 (first entry)
 XX

CC states which respond to the modulation of NOGO expression. The present
 CC sequence is an inozyme of the invention
 XX
 SQ Sequence 17 BP; 2 A; 7 C; 2 G; 0 T; 6 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 0; Gaps 0;
 QY 286 CCAAGCTGGTGAAGG 300
 Db 15 CAAAAGCTGGTGAAGG 1
 RESULT 1023
 ABK00894/c
 ID ABK00894 standard; RNA; 17 BP.
 AC ABK00894;
 XX
 DT 12-MAR-2002 (first entry)
 DE Human NOGO Inozyme #164.
 XX
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
 KW DNazyme; inozyme; G-cleaver; amberszyme; zinzyme; lymphoma; leukaemia;
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
 KW inflammatory arthropathy; central nervous system injury;
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
 KW Parkinson's disease; ataxia; Huntington's disease;
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200159103-A2.
 XX
 PD 16-AUG-2001.
 XX
 PF 09-FEB-2001; 2001WO-US004273.
 XX
 PR 11-FEB-2000; 2000US-0181797P.
 PR 28-FEB-2000; 2000US-0185516P.
 PR 06-MAR-2000; 2000US-0187128P.
 XX
 XX (RISO-) RIBOZYME PHARM INC.
 PA (BLAT/) BLATT L.
 PA (MCSW/) MCSWIGGEN J.
 PA (CHOW/) CHOWRIRA B M.
 XX
 PI Blatt L, Mcswiggen J, Chowrira BM;
 XX
 DR WPI; 2001-607195/69.
 XX
 PT Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
 PT constructs, which down regulate expression of a CD20 gene or neurite
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
 PT central nervous system injury.
 XX
 XX Claim 88; Page 80; 200pp; English.
 PS
 CC The invention relates to a nucleic acid molecule which down regulates
 CC expression of a CD20 gene and a nucleic acid molecule which down
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
 CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or
 CC an amberszyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA

CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA
 CC of CD20 in the presence of a divalent cation that is preferably Mg²⁺.
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
 CC the cell and treat a patient having a condition associated with the level
 CC of CD20. The treatment may further comprise the use of one or more
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the
 CC presence of a divalent cation that is preferably Mg²⁺. Furthermore, the
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the
 CC cell and treat a patient having a condition associated with the level of
 CC NOGO. The treatment may further comprise the use of one or more
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to
 CC treat central nervous system (CNS) injury and cerebrovascular accident
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
 CC disease, muscular dystrophy, and/or other neurodegenerative disease
 CC states which respond to the modulation of NOGO expression. The present
 CC sequence is an inozyme of the invention
 XX
 SQ Sequence 17 BP; 0 A; 12 C; 3 G; 0 T; 2 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 0; Gaps 0;
 QY 143 GCGGTGGAGGCCGG 157
 Db 17 GGAGGGGGAGGCCGG 3

RESULT 1024

ABA77649

ID ABA77649 standard; DNA; 17 BP.

XX

AC ABA77649;

XX

DT 24-JAN-2002 (first entry)

XX

DE Beta globin mutation correcting oligonucleotide SEQ ID NO: 495.

XX

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
 XX retinoblastoma; BRCA1; BRCA2; cystic fibrosis; cancer; Factor V;
 XX cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
 XX adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
 XX haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MHL1; APOE;
 XX mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
 XX familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
 KW Alzheimer's disease; cytostatic; antiskilling; antianaemic; haemostatic;
 KW antilipemic; ss.
 XX
 XX Homo sapiens.
 OS
 PN WO200173002-A2.
 XX
 PD 04-OCT-2001.
 XX
 PF 27-MAR-2001; 2001WO-US009761.
 XX
 PR 27-MAR-2000; 2000US-0192176P.
 PR 27-MAR-2000; 2000US-0192179P.
 PR 01-JUN-2000; 2000US-0208538P.
 PR 30-OCT-2000; 2000US-0244989P.
 XX
 XX (UYDE) UNIV DELAWARE.
 PA
 XX Kmiec EB, Gamper HB, Rice MC;
 PI

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XX DR WPI; 2001-639230/73.
XX PT Oligonucleotide for targeted alterations of genetic sequences and for
XX PT treating cystic fibrosis, comprises at least one mismatch and chemical
XX PT modification.
XX PS Claim 7; Page 73; 294pp; English.
XX CC The present invention provides single-stranded oligonucleotides which can
XX CC be used for the targeted alteration of genomic sequences, where the
XX CC oligonucleotide has at least one mismatch compared with the genomic
XX CC sequence to be altered. In particular, these sequences are directed at
XX CC the following genes: adenosine deaminase, p53, beta-globin,
XX CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
XX CC (CDKN2A), APC, Factor V, Factor VIII, Factor IX, haemoglobin alpha locus
XX CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
XX CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
XX CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
XX CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
XX CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
XX CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
XX CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
XX CC various syndromes. The present sequence is one of the gene correcting
XX CC oligonucleotides of the invention
XX SQ Sequence 17 BP; 3 A; 5 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2;
QY 337 ACCAGGGCGGCTGC 351
DB ||||| |||||
2 ACCAGTGCAGGCTGC 16
RESULT 1025
ABA77650/c
ID ABA77650 standard; DNA; 17 BP.
AC ABA77650;
DT 24-JAN-2002 (first entry)
DE Beta globin mutation correcting oligonucleotide SEQ ID NO: 496.
KW Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
KW Alzheimer's disease; cytostatic; antitickling; antianaemic; haemostatic;
KW antileptic; ss.
XX Homo sapiens.
XX WO200173002-A2.
XX 04-OCT-2001.
XX 27-MAR-2001; 2001WO-US009761.
XX 27-MAR-2000; 2000US-0192176P.
XX 27-MAR-2000; 2000US-0192179P.
XX 01-JUN-2000; 2000US-0208538P.
XX 30-OCT-2000; 2000US-0244989P.
XX (UYDE ) UNIV DELAWARE.
XX PA

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PI Kmiec EB, Gamper HB, Rice MC;
XX WPI; 2001-639230/73.
XX PT Oligonucleotide for targeted alterations of genetic sequences and for
XX PT treating cystic fibrosis, comprises at least one mismatch and chemical
XX PT modification.
XX PS Claim 7; Page 73; 294pp; English.
XX CC The present invention provides single-stranded oligonucleotides which can
XX CC be used for the targeted alteration of genomic sequences, where the
XX CC oligonucleotide has at least one mismatch compared with the genomic
XX CC sequence to be altered. In particular, these sequences are directed at
XX CC the following genes: adenosine deaminase, p53, beta-globin,
XX CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
XX CC (CDKN2A), APC, Factor V, Factor VIII, Factor IX, haemoglobin alpha locus
XX CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
XX CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
XX CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
XX CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
XX CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
XX CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
XX CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
XX CC various syndromes. The present sequence is one of the gene correcting
XX CC oligonucleotides of the invention
XX SQ Sequence 17 BP; 2 A; 5 C; 7 G; 3 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2;
QY 337 ACCAGGGCGGCTGC 351
DB ||||| |||||
16 ACCAGTGCAGGCTGC 2
RESULT 1026
ABA77645
ID ABA77645 standard; DNA; 17 BP.
AC ABA77645;
DT 24-JAN-2002 (first entry)
DE Beta globin mutation correcting oligonucleotide SEQ ID NO: 491.
KW Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
KW Alzheimer's disease; cytostatic; antitickling; antianaemic; haemostatic;
KW antileptic; ss.
XX Homo sapiens.
XX WO200173002-A2.
XX 04-OCT-2001.
XX 27-MAR-2001; 2001WO-US009761.
XX 27-MAR-2000; 2000US-0192176P.
XX 27-MAR-2000; 2000US-0192179P.
XX 01-JUN-2000; 2000US-0208538P.
XX 30-OCT-2000; 2000US-0244989P.
XX (UYDE ) UNIV DELAWARE.
XX PA

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XX Kmiec EB, Gamper HB, Rice MC;
XX WPI; 2001-639230/73.
XX
XX Oligonucleotide for targeted alterations of genetic sequences and for
XX treating cystic fibrosis, comprises at least one mismatch and chemical
XX modification.
XX
XX Claim 7; Page 73; 294pp; English.
XX
XX The present invention provides single-stranded oligonucleotides which can
XX be used for the targeted alteration of genomic sequences, where the
XX oligonucleotide has at least one mismatch compared with the genomic
XX sequence to be altered. In particular, these sequences are directed at
XX the following genes: adenosine deaminase, p53, beta-globin,
XX retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
XX (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
XX 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
XX apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
XX (UGT1), amyloid precursor protein (APP), presenilin-1 (PSEN1) and
XX presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
XX such as cancer, adenosine deaminase deficiency, cystic fibrosis,
XX haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
XX Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
XX various syndromes. The present sequence is one of the gene correcting
XX oligonucleotides of the invention
XX
XX Sequence 17 BP; 3 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 337 ACCAGGCGCGCTGC 351
DB 1 ACCAGTGCAGGCTGC 15

RESULT 1027
ABA77646/c
ID ABA77646 standard; DNA; 17 BP.
XX
AC ABA77646;
XX
XX 24-JAN-2002 (first entry)
XX
XX Beta globin mutation correcting oligonucleotide SEQ ID NO: 492.
XX
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
XX retinoblastoma, BRCA1, BRCA2, CFTR; cystic fibrosis; cancer; Factor V;
XX cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
XX adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
XX haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
XX mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
XX familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
XX UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
XX Alzheimer's disease; cytostatic; antitickling; antianaemic; haemostatic;
XX antileptic; ss.
XX
XX Homo sapiens.
XX
XX WO200173002-A2.
XX
XX 04-OCT-2001.
XX
XX 27-MAR-2001; 2001WO-US0059761.
XX
XX 27-MAR-2000; 2000US-0192176P.
XX
XX 27-MAR-2000; 2000US-0192179P.
XX
XX 01-JUN-2000; 2000US-0208538P.
XX
XX 30-OCT-2000; 2000US-0244989P.
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PA (UYDE ) UNIV DELAWARE.
XX
XX Kmiec EB, Gamper HB, Rice MC;
XX
XX WPI; 2001-639230/73.
XX
XX Oligonucleotide for targeted alterations of genetic sequences and for
XX treating cystic fibrosis, comprises at least one mismatch and chemical
XX modification.
XX
XX Claim 7; Page 73; 294pp; English.
XX
XX The present invention provides single-stranded oligonucleotides which can
XX be used for the targeted alteration of genomic sequences, where the
XX oligonucleotide has at least one mismatch compared with the genomic
XX sequence to be altered. In particular, these sequences are directed at
XX the following genes: adenosine deaminase, p53, beta-globin,
XX retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
XX (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
XX 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
XX apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
XX (UGT1), amyloid precursor protein (APP), presenilin-1 (PSEN1) and
XX presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
XX such as cancer, adenosine deaminase deficiency, cystic fibrosis,
XX haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
XX Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
XX various syndromes. The present sequence is one of the gene correcting
XX oligonucleotides of the invention
XX
XX Sequence 17 BP; 3 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 337 ACCAGGCGCGCTGC 351
DB 17 ACCAGTGCAGGCTGC 3

RESULT 1028
AAH24022/c
ID AAH24022 standard; DNA; 17 BP.
XX
AC AAH24022;
XX
XX 29-AUG-2001 (first entry)
XX
XX Yeast GAL1/GAL10 promoter UASgal site, SEQ ID NO:5.
XX
XX UASgal site; cis-acting transcription control element; Gal4; Gal3; Gal80;
XX stoichiometrically balanced expression; yeast;
XX galactose-inducible expression; expression construct; promoter; GAL1;
XX GAL10; ds.
XX
XX Saccharomyces cerevisiae.
XX
XX US6221630-B1.
XX
XX 24-APR-2001.
XX
XX 24-MAR-1999; 99US-00275680.
XX
XX 24-MAR-1999; 99US-00275680.
XX
XX (PENN-) PENN STATE RES FOUND.
XX
XX Hopper JE;
XX
XX WPI; 2001-307557/32.
XX
XX Expression construct for inducing and sustaining high level recombinant
XX polypeptide production in yeast, comprises nucleic acids encoding a trans
XX

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PT -acting transcription factor, selectable marker and yeast origin of
 PT replication.
 XX Disclosure; Col 15; 22pp; English.
 XX
 CC The invention relates to high copy number expression constructs for high
 CC level polypeptide expression in yeast. The yeast expression constructs
 CC comprise a nucleic acid sequence encoding a set of trans-acting
 CC transcription factors, a nucleic acid encoding a yeast selectable marker
 CC providing an inefficiently or efficiently selected phenotype, a nucleic
 CC acid encoding a yeast or bacterial origin of replication (ori), and a
 CC unique restriction site downstream of a promoter containing a cis-acting
 CC transcription control element that is regulated by the transcription
 CC factors which are encoded by the expression construct. In a specific
 CC embodiment of the invention, the expression construct provides for
 CC galactose-inducible protein expression. Such constructs contain DNA
 CC encoding the transcription factors Gal3, Gal4 and Gal80, and a UASgal cis
 CC -acting control element within the promoter which drives expression of
 CC the inserted gene of interest. The vector-encoded transcription factors
 CC are expressed in stoichiometrically-balanced amounts, which is
 CC particularly important for a galactose-inducible system, as Gal4, when
 CC not balanced by stoichiometric levels of Gal3 and Gal80, becomes a
 CC constitutive transcription factor, and can become toxic to the cell. The
 CC constructs of the invention express the transcription factors at levels
 CC higher than those found in native yeast cells, thereby ensuring
 CC expression of the gene of interest. The expression constructs provide
 CC robust, high level expression of a gene of interest (which can encode an
 CC endogenous or heterologous polypeptide) in yeast. Sequences AAH24019-
 CC AAH24035 represent actual UASgal sites found within the promoters of
 CC various yeast galactose-inducible genes which may be used as the cis-
 CC acting control element in a galactose-inducible expression construct of
 CC the invention
 XX
 SQ Sequence 17 BP; 1 A; 9 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 272 GGAGCAGCGCGCAC 286
 DB 16 GGAGCAGCGCGCGC 2
 RESULT 1029
 ABN06222/c
 ID ABN06222 standard; DNA; 17 BP.
 XX
 AC ABN06222;
 XX
 DT 29-MAY-2002 (first entry)
 XX
 DE Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6214.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200192524-A2.
 XX
 XX 06-DEC-2001.
 XX
 XX 25-MAY-2001; 2001WO-US016981.
 XX
 XX 26-MAY-2000; 2000US-0207456P.
 XX
 XX 21-SEP-2000; 2000US-0234687P.
 XX
 XX 27-SEP-2000; 2000US-0236359P.
 XX
 XX 04-OCT-2000; 2000GB-00024263.
 XX
 XX 30-JAN-2001; 2001WO-US000661.
 XX
 XX 30-JAN-2001; 2001WO-US000662.
 XX
 XX 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 30-JAN-2001; 2001WO-US000670.
 PR 05-FEB-2001; 2001US-0266860P.
 XX
 PA (AEOM-) AEOMICA INC.
 XX
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX WPI; 2002-179446/23.
 XX
 XX New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins,
 XX or as specific biomolecule capture probes for surface-enhanced laser
 XX desorption/ionization, comprises human myosin-like protein hGDMLP-1.
 XX
 XX Disclosure; SEQ ID NO 6214; 214pp; English.
 XX
 CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMLP-1
 CC nucleic acids can be used as probes to detect, characterize and quantify
 CC hGDMLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption/ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 4 A; 6 C; 4 G; 3 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 291 CTGTTGACGACCTG 305
 DB 16 CTGTTGACGACCTG 2
 RESULT 1030
 ABN07566
 ID ABN07566 standard; DNA; 17 BP.
 XX
 AC ABN07566;
 XX
 DT 29-MAY-2002 (first entry)
 XX
 DE Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:7558.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200192524-A2.
 XX

PD XX 06-DEC-2001.
 PF XX
 PR XX 25-MAY-2001; 2001WO-US016981.
 PR XX 26-MAY-2000; 2000US-0207456P.
 PR XX 21-SEP-2000; 2000US-0234687P.
 PR XX 27-SEP-2000; 2000US-0236359P.
 PR XX 04-OCT-2000; 2000GB-00024263.
 PR XX 30-JAN-2001; 2001WO-US000661.
 PR XX 30-JAN-2001; 2001WO-US000662.
 PR XX 30-JAN-2001; 2001WO-US000663.
 PR XX 30-JAN-2001; 2001WO-US000664.
 PR XX 30-JAN-2001; 2001WO-US000665.
 PR XX 30-JAN-2001; 2001WO-US000666.
 PR XX 30-JAN-2001; 2001WO-US000667.
 PR XX 30-JAN-2001; 2001WO-US000668.
 PR XX 30-JAN-2001; 2001WO-US000669.
 PR XX 30-JAN-2001; 2001WO-US000670.
 PR XX 05-FEB-2001; 2001US-0266860P.
 XX XX
 PA (AEOM-) AEOMICA INC.
 XX XX
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX XX
 DR WPI; 2002-179446/23.
 XX XX
 PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX XX
 PS Disclosure; SEQ ID NO 7558; 214pp; English.
 XX XX
 CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX XX
 SQ Sequence 17 BP; 5 A; 3 C; 6 G; 3 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 385 ACAGCGGCGCCAGA 399
 Db 3 ATGACGGGGCCAGA 17
 RESULT 1031
 ABN05995/c
 ID ABN05995 standard; DNA; 17 BP.
 XX XX
 AC ABN05995;
 XX XX
 DT 29-MAY-2002 (first entry)

XX DE
 XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 OS Homo sapiens.
 XX PN WO200192524-A2.
 XX PD 06-DEC-2001.
 XX XX
 XX PF 25-MAY-2001; 2001WO-US016981.
 XX XX 26-MAY-2000; 2000US-0207456P.
 XX XX 21-SEP-2000; 2000US-0234687P.
 XX XX 27-SEP-2000; 2000US-0236359P.
 XX XX 04-OCT-2000; 2000GB-00024263.
 XX XX 30-JAN-2001; 2001WO-US000661.
 XX XX 30-JAN-2001; 2001WO-US000662.
 XX XX 30-JAN-2001; 2001WO-US000663.
 XX XX 30-JAN-2001; 2001WO-US000664.
 XX XX 30-JAN-2001; 2001WO-US000665.
 XX XX 30-JAN-2001; 2001WO-US000666.
 XX XX 30-JAN-2001; 2001WO-US000667.
 XX XX 30-JAN-2001; 2001WO-US000668.
 XX XX 30-JAN-2001; 2001WO-US000669.
 XX XX 30-JAN-2001; 2001WO-US000670.
 XX XX 05-FEB-2001; 2001US-0266860P.
 XX XX
 PA (AEOM-) AEOMICA INC.
 XX XX
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX XX
 DR WPI; 2002-179446/23.
 XX XX
 PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX XX
 PS Disclosure; SEQ ID NO 5987; 214pp; English.
 XX XX
 CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX XX
 SQ Sequence 17 BP; 5 A; 2 C; 6 G; 4 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 355 ACAGCGACTTCTCA 369

DB 17 ACATGGACTTCCTCA 3
 RESULT 1032
 ABN10476
 ID ABN10476 standard; DNA; 17 BP.
 XX AC ABN10476;
 XX
 DT 29-MAY-2002 (first entry)
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:10468.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 FN WO2001192524-A2.
 XX
 XX 06-DEC-2001.
 XX
 XX 25-MAY-2001; 2001WO-US016981.
 XX
 XX 26-MAY-2000; 2000US-0207456P.
 FR 21-SEP-2000; 2000US-0234687P.
 FR 27-SEP-2000; 2000US-0236359P.
 FR 04-OCT-2000; 2000GB-00024263.
 FR 30-JAN-2001; 2001WO-US000661.
 FR 30-JAN-2001; 2001WO-US000662.
 FR 30-JAN-2001; 2001WO-US000663.
 FR 30-JAN-2001; 2001WO-US000664.
 FR 30-JAN-2001; 2001WO-US000665.
 FR 30-JAN-2001; 2001WO-US000666.
 FR 30-JAN-2001; 2001WO-US000667.
 FR 30-JAN-2001; 2001WO-US000668.
 FR 30-JAN-2001; 2001WO-US000669.
 FR 05-FEB-2001; 2001US-0266860P.
 XX
 XX (AEOM-) AEOMICA INC.
 XX
 FI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX
 XX WPI; 2002-179446/23.
 DR
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 XX or as specific biomolecule capture probes for surface-enhanced laser
 XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
 XX
 XX Disclosure; SEQ ID NO 10468; 214pp; English.
 XX
 XX The present invention describes a human genome-derived myosin-like
 XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 XX nucleic acids can be used as probes to detect, characterize and quantify
 XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 XX provide initial substrates for the recombinant engineering of hGDMPLP-1
 XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
 XX -1 proteins, as standards in assays used to determine the concentration
 XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 XX capture probes for surface-enhanced laser desorption/ionization, as
 XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 XX production, and in vaccines or for replacement therapy. The
 XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 XX disorder associated with the expression of hGDMPLP-1, in particular heart
 XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 XX The present sequence represents an oligomer used in the screening of the
 XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.

CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 1 A; 3 C; 10 G; 3 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 16 TGGGGGTGACCGAGG 30
 Db 1 TGGGGGTGACCGTGG 15
 RESULT 1033
 ABN07572
 ID ABN07572 standard; DNA; 17 BP.
 XX AC ABN07572;
 XX
 DT 29-MAY-2002 (first entry)
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:7564.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 FN WO2001192524-A2.
 XX
 XX 06-DEC-2001.
 XX
 XX 25-MAY-2001; 2001WO-US016981.
 XX
 XX 26-MAY-2000; 2000US-0207456P.
 FR 21-SEP-2000; 2000US-0234687P.
 FR 27-SEP-2000; 2000US-0236359P.
 FR 04-OCT-2000; 2000GB-00024263.
 FR 30-JAN-2001; 2001WO-US000661.
 FR 30-JAN-2001; 2001WO-US000662.
 FR 30-JAN-2001; 2001WO-US000663.
 FR 30-JAN-2001; 2001WO-US000664.
 FR 30-JAN-2001; 2001WO-US000665.
 FR 30-JAN-2001; 2001WO-US000666.
 FR 30-JAN-2001; 2001WO-US000667.
 FR 30-JAN-2001; 2001WO-US000668.
 FR 30-JAN-2001; 2001WO-US000669.
 FR 05-FEB-2001; 2001US-0266860P.
 XX
 XX (AEOM-) AEOMICA INC.
 XX
 FI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX
 XX WPI; 2002-179446/23.
 DR
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 XX or as specific biomolecule capture probes for surface-enhanced laser
 XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
 XX
 XX Disclosure; SEQ ID NO 7564; 214pp; English.
 XX
 XX The present invention describes a human genome-derived myosin-like
 XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 XX nucleic acids can be used as probes to detect, characterize and quantify
 XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 XX provide initial substrates for the recombinant engineering of hGDMPLP-1
 XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
 XX -1 proteins, as standards in assays used to determine the concentration
 XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 XX capture probes for surface-enhanced laser desorption/ionization, as
 XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 XX production, and in vaccines or for replacement therapy. The
 XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 XX disorder associated with the expression of hGDMPLP-1, in particular heart
 XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 XX The present sequence represents an oligomer used in the screening of the
 XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.

used as immunogens to raise antibodies that specifically recognise hGDMPLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMPLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption/ionisation, as therapeutic supplement in patients having specific deficiency in hGDMPLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a disorder associated with the expression of hGDMPLP-1, in particular heart and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMPLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequence

XX Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 389 CGGCGCCCAAGAGGT 403

Db 1 CGGGCCCAAGAGAT 15

RESULT 1034

ABN08151

ID ABN08151 standard; DNA; 17 BP.

AC ABN08151;

DT 29-MAY-2002 (first entry)

DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8143.

KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.

OS Homo sapiens.

XX WO200192524-A2.

PD 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000GB-00024263.

PR 30-JAN-2001; 2001WO-US000661.

PR 30-JAN-2001; 2001WO-US000662.

PR 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.

PR 30-JAN-2001; 2001WO-US000665.

PR 30-JAN-2001; 2001WO-US000666.

PR 30-JAN-2001; 2001WO-US000667.

PR 30-JAN-2001; 2001WO-US000668.

PR 30-JAN-2001; 2001WO-US000669.

PR 05-FEB-2001; 2001US-0266860P.

XX (AEOM-) AEOMICA INC.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;

XX WFI; 2002-179446/23.

XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX PT or as specific biomolecule capture probes for surface-enhanced laser
XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.

XX Disclosure; SEQ ID NO 8143; 214pp; English.

PS The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
CC nucleic acids can be used as probes to detect, characterise and quantify
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
CC provide initial substrates for the recombinant engineering of hGDMPLP-1
CC protein variants having desired phenotypic improvements, and for
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
CC -1 proteins, as standards in assays used to determine the concentration
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
CC capture probes for surface-enhanced laser desorption/ionisation, as
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
CC production, and in vaccines or for replacement therapy. The
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
CC disorder associated with the expression of hGDMPLP-1, in particular heart
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
CC The present sequence represents an oligomer used in the screening of the
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequence

XX Sequence 17 BP; 6 A; 3 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 265 TGCACCTGGAGCAGG 279

Db 3 TGCAGCTGGAGCAAG 17

RESULT 1035

ABN10475

ID ABN10475 standard; DNA; 17 BP.

AC ABN10475;

DT 29-MAY-2002 (first entry)

DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:10467.

KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.

OS Homo sapiens.

XX WO200192524-A2.

PD 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000GB-00024263.

PR 30-JAN-2001; 2001WO-US000661.

PR 30-JAN-2001; 2001WO-US000662.

PR 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.

PR 30-JAN-2001; 2001WO-US000665.

PR 30-JAN-2001; 2001WO-US000666.

PR 30-JAN-2001; 2001WO-US000667.

PR 30-JAN-2001; 2001WO-US000668.

PR 30-JAN-2001; 2001WO-US000669.

PR 30-JAN-2001; 2001WO-US000670.

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PR 05-FEB-2001; 2001US-0266860P.
XX (AEOM-) AEOMICA INC.
PA
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 10467; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX of and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption/ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 1 A; 3 C; 9 G; 4 T; 0 U; 0 Other;
SQ
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 16 TGC GG GTG AC CG AGG 30
XX |||||
XX Db 2 TGC GG GTG AC CG GTG 16
XX
XX RESULT 1036
XX ABN06001/c
XX ID ABN06001 standard; DNA; 17 BP.
XX AC ABN06001;
XX
XX DT 29-MAY-2002 (first entry)
XX
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:5993.
XX
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX
XX OS Homo sapiens.
XX
XX FN WO200192524-A2.
XX
XX PD 06-DEC-2001.
XX
XX PF 25-MAY-2001; 2001WO-US016981.
XX
XX PR 26-MAY-2000; 2000US-0207456P.
XX 21-SEP-2000; 2000US-0234687P.
XX
XX PR 27-SEP-2000; 2000US-0236359P.

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PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-0266860P.
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 5993; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX of and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption/ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 5 A; 2 C; 7 G; 3 T; 0 U; 0 Other;
SQ
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 351 CTCTACAGCGACTTC 365
XX |||||
XX Db 15 CTCTACATGGACTTC 1
XX
XX RESULT 1037
XX ABN08152
XX ID ABN08152 standard; DNA; 17 BP.
XX
XX AC ABN08152;
XX
XX DT 29-MAY-2002 (first entry)
XX
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8144.
XX
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX
XX

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OS Homo sapiens.
 XX WO200192524-A2.
 XX 06-DEC-2001.
 XX 25-MAY-2001; 2001WO-US016981.
 XX 26-MAY-2000; 2000US-0207456P.
 XX 21-SEP-2000; 2000US-0234687P.
 XX 27-SEP-2000; 2000US-0236359P.
 XX 04-OCT-2000; 2000GB-00024263.
 XX 30-JAN-2001; 2001WO-US000661.
 XX 30-JAN-2001; 2001WO-US000662.
 XX 30-JAN-2001; 2001WO-US000663.
 XX 30-JAN-2001; 2001WO-US000664.
 XX 30-JAN-2001; 2001WO-US000665.
 XX 30-JAN-2001; 2001WO-US000666.
 XX 30-JAN-2001; 2001WO-US000667.
 XX 30-JAN-2001; 2001WO-US000668.
 XX 30-JAN-2001; 2001WO-US000669.
 XX 30-JAN-2001; 2001WO-US000670.
 XX 05-FEB-2001; 2001US-0266860P.
 XX (AEON-) AEOMICA INC.
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX WPI; 2002-179446/23.
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 XX or as specific biomolecule capture probes for surface-enhanced laser
 XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX Disclosure; SEQ ID NO 8144; 214pp; English.
 XX The present invention describes a human genome-derived myosin-like
 XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 XX nucleic acids can be used as probes to detect, characterise and quantify
 XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 XX provide initial substrates for the recombinant engineering of hGDMPLP-1
 XX protein variants having desired phenotypic improvements, and for
 XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
 XX -1 proteins, as standards in assays used to determine the concentration
 XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 XX capture probes for surface-enhanced laser desorption ionisation, as
 XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 XX production, and in vaccines or for replacement therapy. The
 XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 XX disorder associated with the expression of hGDMPLP-1, in particular heart
 XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 XX The present sequence represents an oligomer used in the screening of the
 XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 XX The sequence data for this patent did not form part of the printed
 XX specification, but was obtained in electronic format directly from WIPO
 XX at ftp.wipo.int/pub/published_pct_sequence
 XX Sequence 17 BP; 6 A; 3 C; 6 G; 2 T; 0 U; 0 Other;
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
 XX Best Local Similarity 86.7%; Pred. No. 5e+02;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 255 TGCACCTGGACAGG 279
 DB |||||
 2 TGCAGCTGGACAG 16
 RESULT 1038
 ABN06469
 ID ABN06469 standard; DNA; 17 BP.

XX AC ABN06469;
 XX 29-MAY-2002 (first entry)
 XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6461.
 XX Human, genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 XX skeletal muscle disorder; amplicon; screening; ss.
 XX Homo sapiens.
 XX WO200192524-A2.
 XX 06-DEC-2001.
 XX 25-MAY-2001; 2001WO-US016981.
 XX 26-MAY-2000; 2000US-0207456P.
 XX 21-SEP-2000; 2000US-0234687P.
 XX 27-SEP-2000; 2000US-0236359P.
 XX 04-OCT-2000; 2000GB-00024263.
 XX 30-JAN-2001; 2001WO-US000661.
 XX 30-JAN-2001; 2001WO-US000662.
 XX 30-JAN-2001; 2001WO-US000663.
 XX 30-JAN-2001; 2001WO-US000664.
 XX 30-JAN-2001; 2001WO-US000665.
 XX 30-JAN-2001; 2001WO-US000666.
 XX 30-JAN-2001; 2001WO-US000667.
 XX 30-JAN-2001; 2001WO-US000668.
 XX 30-JAN-2001; 2001WO-US000669.
 XX 30-JAN-2001; 2001WO-US000670.
 XX 05-FEB-2001; 2001US-0266860P.
 XX (AEOM-) AEOMICA INC.
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX WPI; 2002-179446/23.
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 XX or as specific biomolecule capture probes for surface-enhanced laser
 XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX Disclosure; SEQ ID NO 6461; 214pp; English.
 XX The present invention describes a human genome-derived myosin-like
 XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 XX nucleic acids can be used as probes to detect, characterise and quantify
 XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 XX provide initial substrates for the recombinant engineering of hGDMPLP-1
 XX protein variants having desired phenotypic improvements, and for
 XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
 XX -1 proteins, as standards in assays used to determine the concentration
 XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 XX capture probes for surface-enhanced laser desorption ionisation, as
 XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 XX production, and in vaccines or for replacement therapy. The
 XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 XX disorder associated with the expression of hGDMPLP-1, in particular heart
 XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 XX The present sequence represents an oligomer used in the screening of the
 XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 XX The sequence data for this patent did not form part of the printed
 XX specification, but was obtained in electronic format directly from WIPO
 XX at ftp.wipo.int/pub/published_pct_sequence
 XX Sequence 17 BP; 2 A; 5 C; 3 G; 7 T; 0 U; 0 Other;
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Indels 2; Gaps 0;
 Matches 13; Conservative 0; Mismatches 0; Indels 2; Gaps 0;
 QY 191 TATCCACTGCTCGGT 205
 |||||
 Db 3 TATCCACTGCTCGGT 17

RESULT 1039
 ABN06223/c
 ID ABN06223 standard; DNA; 17 BP.
 XX AC ABN06223;
 XX DT 29-MAY-2002 (first entry)
 XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6215.

XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.

XX OS Homo sapiens.
 XX PN WO200192524-A2.
 XX PD 06-DEC-2001.

XX PF 25-MAY-2001; 2001WO-US016981.
 XX PR 26-MAY-2000; 2000US-0207456P.
 XX PR 21-SEP-2000; 2000US-0234687P.
 XX PR 27-SEP-2000; 2000US-0236359P.
 XX PR 04-OCT-2000; 2000GB-00024263.
 XX PR 30-JAN-2001; 2001WO-US000661.
 XX PR 30-JAN-2001; 2001WO-US000662.
 XX PR 30-JAN-2001; 2001WO-US000663.
 XX PR 30-JAN-2001; 2001WO-US000664.
 XX PR 30-JAN-2001; 2001WO-US000665.
 XX PR 30-JAN-2001; 2001WO-US000666.
 XX PR 30-JAN-2001; 2001WO-US000667.
 XX PR 30-JAN-2001; 2001WO-US000668.
 XX PR 30-JAN-2001; 2001WO-US000669.
 XX PR 30-JAN-2001; 2001WO-US000670.
 XX PR 05-FEB-2001; 2001US-0266860P.
 XX PA (ABOM-) AEOMICA INC.

XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX WPI; 2002-179446/23.

XX PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.

XX PS Disclosure; SEQ ID NO 6215; 214pp; English.

XX CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterize and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecul
 CC capture probes for surface-enhanced laser desorption ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a

CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC the sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence

XX SQ Sequence 17 BP; 4 A; 6 C; 4 G; 3 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 291 CTGGTGAGGACCTG 305
 |||||
 Db 15 CTGGTGAGGACCTG 1

RESULT 1040
 ABN06471
 ID ABN06471 standard; DNA; 17 BP.

XX AC ABN06471;
 XX DT 29-MAY-2002 (first entry)
 XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6463.

XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.

XX OS Homo sapiens.
 XX PN WO200192524-A2.
 XX PD 06-DEC-2001.

XX PF 25-MAY-2001; 2001WO-US016981.
 XX PR 26-MAY-2000; 2000US-0207456P.
 XX PR 21-SEP-2000; 2000US-0234687P.
 XX PR 27-SEP-2000; 2000US-0236359P.
 XX PR 04-OCT-2000; 2000GB-00024263.
 XX PR 30-JAN-2001; 2001WO-US000661.
 XX PR 30-JAN-2001; 2001WO-US000662.
 XX PR 30-JAN-2001; 2001WO-US000663.
 XX PR 30-JAN-2001; 2001WO-US000664.
 XX PR 30-JAN-2001; 2001WO-US000665.
 XX PR 30-JAN-2001; 2001WO-US000666.
 XX PR 30-JAN-2001; 2001WO-US000667.
 XX PR 30-JAN-2001; 2001WO-US000668.
 XX PR 30-JAN-2001; 2001WO-US000669.
 XX PR 30-JAN-2001; 2001WO-US000670.
 XX PR 05-FEB-2001; 2001US-0266860P.

XX PA (ABOM-) AEOMICA INC.

XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX WPI; 2002-179446/23.

XX PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.

XX PS Disclosure; SEQ ID NO 6463; 214pp; English.

XX CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify

CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption/ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 3 A; 6 C; 3 G; 5 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 191 TATCCACTGCTCGT 205
 DB 1 TATCCACTGCTCGT 15
 RESULT 1041
 ABNO1016
 ID ABNO1016 standard; DNA; 17 BP.
 AC ABNO1016;
 DT 29-MAY-2002 (first entry)
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1008.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200192524-A2.
 PD 06-DEC-2001.
 XX
 PF 25-MAY-2001; 2001WO-US016981.
 XX
 PR 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024263.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 05-FEB-2001; 2001US-026680P.
 XX
 PA (AEOM-) AEOMICA INC.
 XX
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon MB;
 XX WPI; 2002-179446/23.
 DR

XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
 XX
 PS Disclosure; SEQ ID NO 1008; 21app; English.
 XX
 CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption/ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 8 A; 3 C; 6 G; 0 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 202 CGGTCAAGCAGAGA 216
 DB 3 CAGGCAAGCAGAGA 17
 RESULT 1042
 ABNO6470
 ID ABNO6470 standard; DNA; 17 BP.
 AC ABNO6470;
 XX
 DT 29-MAY-2002 (first entry)
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6462.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200192524-A2.
 PD 06-DEC-2001.
 XX
 PF 25-MAY-2001; 2001WO-US016981.
 XX
 PR 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024263.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.

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PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-0266860P.
XX
PA (AEOM-) AEOMICA INC.
XX
PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
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XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 6462; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 3 A; 5 C; 3 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 191 TATCCACTGCTCGGT 205
XX 2 TATCCACTGCTCGGT 16
XX
XX RESULT 1043
XX ABN08153
XX ID ABN08153 standard; DNA; 17 BP.
XX
XX AC ABN08153;
XX
XX 29-MAY-2002 (first entry)
XX
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8145.
XX
XX Human, genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX
XX Homo sapiens.
XX
XX WO200192524-A2.
XX
XX 06-DEC-2001.
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XX 25-MAY-2001; 2001WO-US016981.

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XX 26-MAY-2000; 2000US-0207456P.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX 30-JAN-2001; 2001WO-US000661.
XX 30-JAN-2001; 2001WO-US000662.
XX 30-JAN-2001; 2001WO-US000663.
XX 30-JAN-2001; 2001WO-US000664.
XX 30-JAN-2001; 2001WO-US000665.
XX 30-JAN-2001; 2001WO-US000666.
XX 30-JAN-2001; 2001WO-US000667.
XX 30-JAN-2001; 2001WO-US000668.
XX 30-JAN-2001; 2001WO-US000669.
XX 30-JAN-2001; 2001WO-US000670.
XX 05-FEB-2001; 2001US-0266860P.
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XX (AEOM-) AEOMICA INC.
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XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
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XX WPI; 2002-179446/23.
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XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 8145; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
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XX capture probes for surface-enhanced laser desorption ionisation, as
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XX production, and in vaccines or for replacement therapy. The
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XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
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XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 5 A; 3 C; 7 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 265 TGCACCTGGAGCAGG 279
XX 1 TGCACCTGGAGCAGG 15
XX
XX RESULT 1044
XX ABN10474
XX ID ABN10474 standard; DNA; 17 BP.
XX
XX AC ABN10474;
XX
XX 29-MAY-2002 (first entry)
XX
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:10466.
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